

NEW PRODUCTS

TEMPERATURE-COMPENSATED NO MEASUREMENT

The inNO-T is a nitric oxide (NO) measuring system with automatic temperature compensation. It is a digital, computer-controlled system that combines a NO meter and a data acquisition system in a compact, battery-powered device. The dual-channel data acquisition system allows the user to monitor and record NO concentration and temperature simultaneously. The system includes sensors with mechanically tough membranes to ensure stability and selectivity and new designs for in vivo and monolayer cell culture measurements. It offers sensitivity and the availability of many sizes. The sensors can be adapted for use with other systems.

Innovative Instruments

For more information call 813-988-2477 or **circle 144** on the Reader Service Card

HUMAN TUMOR ARRAY

The Atlas Select Human Tumor Array is for profiling the expression of genes shown to be up- or downregulated in tumor cells. The array contains 437 genes that have been identified as being differentially expressed in a variety of tumor tissues, including 60 novel genes and 166 cDNAs with no homology to known cancer-related genes. With this array, potential drug targets, tumor suppressor genes, oncogenes, or markers for a specific tumor type or stage can be identified. Atlas Select can also be used to investigate the processes of tumorigenesis in a system of interest.

CLONTECH

For more information call 800-662-2566 or **circle 145** on the Reader Service Card

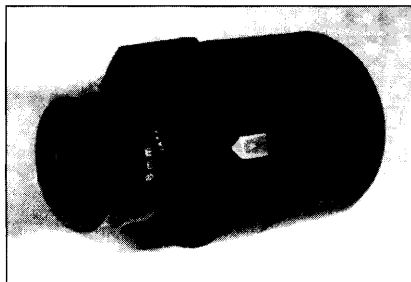
CUSTOM SLIDE STAINING SERVICES

With SlidePRO Professional Slide Staining services, researchers can have their individual slides or screening tests conveniently and professionally stained by experts in immunohistochemistry (IHC) and in situ hybridization (ISH). Either frozen or paraffin-embedded tissue sections can be sent for IHC or ISH testing. Researchers can choose from more than 300 antibodies and oligonucleotide probes or send their own antibodies (mouse, rabbit, goat, or rat) or DNA probes (biotin- or fluorescein-labeled). A choice of enzymes and chromogenic substrates is also

offered to meet individual needs and preferences. IHC and ISH testing services include all necessary tissue pretreatments, such as target retrieval or enzyme digestion, as well as staining, counterstaining, and mounting.

VERSATILE MICROSCOPE CAMERA

The PriorCam charge-coupled device (CCD) camera delivers crisp images to the user's monitor. It is easy to set up and mounts onto virtually any microscope or other optical system. It can be mounted on the microscope's eyepiece or trinocular port, which eliminates the need for expensive accessories. The PriorCam features an 8-mm, C-mount lens, an adjustable aperture, 400 TV lines of resolution, and 291 K pixels. The camera comes complete with a custom



metal eyepiece adapter, 28-mm and 34-mm couplers, an 8-ft flexible extension cable, a 12-volt DC power supply, and all accessories required for immediate use.

GEL DOCUMENTATION SYSTEMS

The GeneLine gel documentation systems deliver consistent, reliable gel images in seconds. The highlight of the series is the GeneTools analysis software, which provides complete gel analysis with the click of a mouse. Images from the camera are instantly processed by the software, which, in less than 8 s, automatically locates lanes, bands, and edges and produces track profiles and results, including precise molecular weights and volume and quality data, which can be exported directly into Microsoft Excel. The systems feature a state-of-the-art charge-coupled device camera, a 23-cm by 28-cm hood, and an image acquisition software

Prior Scientific

For more information call 800-877-2234 or **circle 147** on the Reader Service Card

CD. The camera is equipped with manual zoom lenses, +2 diopter lens, and camera mount bracket. When the hooded camera is placed on the transilluminator over the gel, the image shows up instantly on a monitor. The camera automatically adjusts to produce a perfect image on the monitor screen. The image can then be printed or saved on a computer.

LITERATURE

Magic 2002 HPLC System details the versatility of a fully automated high-performance liquid chromatography system that features easy interchanges among analytical, microbore, capillary, and high-throughput applications. Optimized flow dynamics provide high speed and high sensitivity. The instrument's dual-pump, high-pressure binary gradient delivery system can deliver accurate gradient flows from 100 nL/min to 5.0 mL/min. The built-in, 10-port autoinjector allows conventional loop injection or on-line concentration, desalting, and detergent removal to minimize contamination and maximize sensitivity. Auxiliary detectors including fluorescence, electrochemical, radioactivity, and mass spectrometers can be readily added with a minimum impact on extra column band broadening.

Michrom BioResources

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Chiral HPLC Application Guide III is a 76-page guide that contains more than 410 chiral separations complete with separation data and analyte structure. The guide is indexed by compound name and column type for easy cross reference. Regis Technologies manufactures a complete line of high-performance liquid chromatography columns that are covalently bonded for durability and universal solvent compatibility.

Regis Technologies

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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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The Department of Biochemistry, Duke University Medical Center, invites applications for a faculty position at the level of Assistant, Associate, or Full Professor. We are seeking outstanding candidates with experience in the field of biological NMR as applied to fundamental problems of enzymology, protein structure, or nucleic acid biochemistry. Duke University has just purchased an 800 MHz spectrometer, which complements the existing 600 and 500 MHz instruments in the NMR Center. The candidate may also choose to be affiliated with the newly created Center for Chemical Biology in the Duke University School of Medicine. Send résumé, summary of research interests, and three letters of reference to: Christian R. H. Raetz, Chairman, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710. Applications should be received by October 1, 2000. Duke University is an Equal Opportunity/Affirmative Action Employer.

CLINICAL PHARMACOLOGY

The newly formed Division of Clinical Pharmacology in the Department of Medicine of New York University School of Medicine invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Candidates should have an M.D. or M.D./Ph.D. We are particularly interested in candidates with training and interest in molecular pharmacologic research in the areas of nephrology, infectious diseases, cardiology, and gastroenterology, although other areas of interest will also be considered. Appropriate start-up support is available. Areas of active research in the Division of Clinical Pharmacology include pharmacologic approaches to the treatment and prevention of atherosclerosis and inflammation and the promotion of wound healing. Please send curriculum vitae, research interest statement, and names of three references to:

Bruce Cronstein, M.D.
Director, Division of Clinical Pharmacology
New York University School of Medicine
550 First Avenue
New York, NY 10016

The Departments of Orthopedic Surgery and Biomedical Engineering seek individuals with a strong background in biomedical sciences to work on projects of nonviral gene delivery to spinal cord and engineering of spinal tissue. Candidates should have a Ph.D. or Ph.D./M.D. with expertise in cell and molecular biology or biomaterials in relation to tissue engineering. Please send curriculum vitae to: K. W. Leong, Department of Biomedical Engineering, Johns Hopkins School of Medicine, Ross 729, Baltimore, MD 21205.

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M.D. OR PH.D. FACULTY POSITIONS

The University of Sint Eustatius on the island of Sint Eustatius has positions available in the departments of Gross Anatomy, Embryology, Histology, and Genetics. We are strictly a teaching institution; we have no facilities or funds for research. Interested persons should apply with curriculum vitae and references to: C. Frank Chambers, M.D., Managing Director, University of Sint Eustatius, P.O. Box 527668, Miami, FL 33152-7668. E-mail: jobean@erols.com; Telephone: 011 599 416-2499.

POSITIONS OPEN

ASSOCIATE OR FULL PROFESSOR OF BIOCHEMISTRY University of Wisconsin-Madison

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a position at the Associate or Full Professor (tenured) level or nominations of individuals to fill this position. Applicants must be experienced in the structure and mechanism of action of bioactive small molecules, and their research interests should include Vitamin D. The University and Department provide an excellent environment for the continuation of an outstanding research program, and the laboratory of the appointed candidate will be housed in a new facility. In addition to continuing a vigorous independent research program, the successful candidate will be expected to participate in the undergraduate and graduate teaching programs of the Department. Applications, including curriculum vitae, list of publications, and a brief summary of accomplishments and direction of future research, should be sent to: Professor H. F. DeLuca, Chair, Department of Biochemistry, University of Wisconsin-Madison, 433 Babcock Drive, Madison, WI 53706-1544. Applications should be received by September 15, 2000, but the search will continue until a suitable applicant is identified. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities. Under Wisconsin statutes, names, titles, and addresses of applicants may be subject to public release upon request.*

The University of California, Irvine, College of Medicine is seeking a full-time tenure-track **FACULTY POSITION** at the Beckman Laser Institute. This is an M.D./Ph.D. Clinical Scientist with demonstrated publication and peer-reviewed grant support in photomedicine with particular emphasis on laser light interactions with tissue. Candidate must have demonstrated the ability to perform basic and applied research, which has led to the development of new clinical procedures using lasers. Candidate will coordinate and run an interdisciplinary research program as well as conduct a major clinical program and administer aspects of a laser outpatient clinic including resident training. Salary commensurate with training and experience.

Interested candidates should submit current curriculum vitae and letter outlining qualifications, with five names and addresses of references, to:

Michael Berns, Ph.D., Professor
Beckman Laser Institute, UCI
1002 Health Sciences Road
Irvine, CA 92612
E-mail: job@uci.bli.edu

The University of California Irvine is an Equal Opportunity Employer committed to excellence through diversity.

The Department of Chemistry and Biochemistry at New Mexico State University invites applications for a tenure-track faculty position as **ASSISTANT PROFESSOR**. We are seeking an outstanding Investigator in bioinformatics with research experience and interests in one or more of the following areas: structure/function prediction for proteins or nucleic acids; quantitative modeling of metabolism, transport, signaling, or gene expression; or functional/comparative genomics. The successful candidate will be qualified to teach core courses in biochemistry and work effectively in a dynamic interdisciplinary environment. Applicants should submit detailed curriculum vitae, transcripts of higher education, a statement of research and teaching interests, and arrange to have three letters of reference sent to:

Chair, Biochemistry Search Committee
Department of Chemistry and Biochemistry
Box 30001, MSC 3C, New Mexico State University
Las Cruces, NM 88003

Evaluation of completed applications will begin on August 15, 2000, and continue until the position is filled. *NMSU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

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Opportunities in Global Safety Assessment

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- One of the world's top 5 pharmaceutical companies
- over £5 million each day allocated to research and development
- sales over £10 billion.



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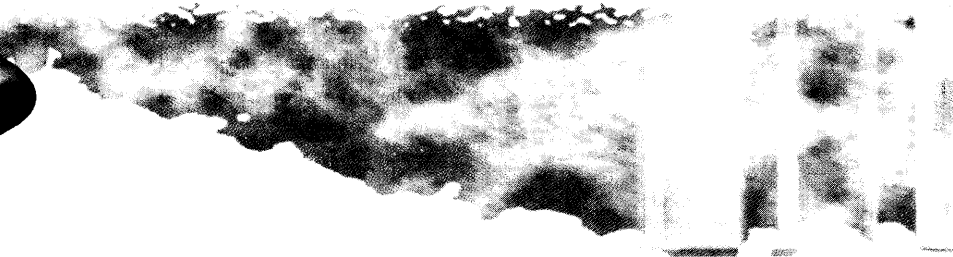


**New Drugs
New Methods
New People**

On four major sites AstraZeneca is building a comprehensive global skills base in Safety Assessment in order to identify, select and progress novel drug as quickly and safely as possible. This will be focused on early support to project teams in discovery, in addition to meeting regulatory requirements for development and registration.

Stimulated by the current revolution in biology, chemistry and informatics, the pharmaceutical industry is rapidly employing exciting new approaches for inventing and developing drugs for unmet medical needs, more quickly and cost effectively than ever before.

Within AstraZeneca, Global Safety Assessment is poised to spearhead a major expansion in its support for the early selection of robust drug candidates with an increased chance of successful development and delivery to patients.





To this aim we are looking for high calibre innovative scientists in the following disciplines to support our excellent teams in the UK, Sweden and the USA:

- genetic toxicology
- cell biology
- pathology
- clinical pathology
- molecular biology
- biochemical and mechanistic toxicology
- safety pharmacology
- general toxicology and study direction.

We have a number of roles to offer in the above disciplines at all four sites.

rything we do

A major challenge is to harness and apply the exciting new methods of molecular biology and genetics in Safety Assessment. These tools and others will be used to examine the potential harmful effect of new chemical entities or therapeutic procedures, allowing informed, effective and rapid decisions to be made. This will be done in a team environment, working closely with colleagues in Global Safety Assessment, Discovery, Experimental Medicine and other specialist enabling sciences.

You will work in modern, well-equipped facilities with access to leading edge technologies in a supportive but challenging environment. Personal and career development is encouraged across the international function.

If you feel the picture we paint offers the challenge you need and are confident you could make a contribution in the rapidly changing world of pharmaceutical R&D, please send for further details enclosing a CV, indicating which location/s you would prefer to work, to BNB Response, 1st Floor, Wellington House, 20 Queensmere, Slough, Berkshire SL1 1DB, United Kingdom quoting reference 6278C.

For further information about our organisation visit our website at www.astrazeneca.com
Closing date: 31 August 2000.

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Senior Scientist, Advanced Drug Delivery

This position, on the Microdevices Team, will have broad responsibilities for development of advanced drug delivery systems, with emphasis on intradermal delivery. Will plan and implement drug delivery system feasibility studies in collaboration with pharmaceutical company partners, using project management to plan, schedule and allocate resources. Incumbent will investigate external developing transcutaneous drug delivery technologies through technology sensing and joint experimental projects.

Position requires a Ph.D. in Chemistry or Pharmaceutical Science with 7-10 years of experience including 5+ years' in drug delivery. Areas of expertise should include drug formulation and delivery with preferable emphasis on insulin and diabetes therapies, including constant and variable rate infusions and their linkages with device design and insulin formulation. Experience in immunology and vaccine delivery is also a distinct plus. The successful candidate will have a significant record of patents and scientific publications in the drug delivery field. Must have a demonstrated ability to supervise research staff to fulfill project objectives.

Scientist, Medical Systems Technology

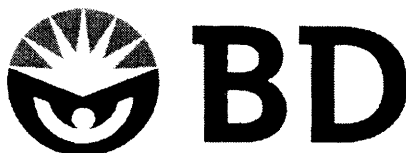
This position, on the Microdevices Team, will be responsible for: 1) leading formulation research and early stage development efforts for internally developed microneedle and pulmonary vaccine delivery program; 2) providing technical due diligence and recommendation for in-licensing of third party stabilization and delivery technology; 3) advising and alerting team of new developments and trends in the vaccine industry.

Requires a Ph.D. in biological/physical sciences with 5+ years of experience in the pharmaceutical industry with in-depth exposure to pre-clinical and clinical development with a proven publication and patent record. Technical expertise should include formulation of biologicals (preferably vaccines), drug delivery and pre-clinical trials for monitoring of immune response. An up-to-date knowledge of vaccine and drug delivery, formulation and stabilization technology is highly desirable.

We provide competitive salaries and comprehensive benefits. Please forward your resume to: **BD Technologies, 21 Davis Dr., P.O. Box 12016, Research Triangle Park, NC 27709**, or e-mail to **BDThr@bd.com**

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BIOLOGIST/ VIROLOGIST

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Utilize your technical expertise and realize your full potential at Merck as a Biologist/Virologist. As part of a team working to develop novel vaccines, you will draw on your experience in propagating negative strand viruses and your knowledge of tissue culture. We require a BS/MS, laboratory experience, and molecular biological skills, specifically in DNA cloning, gel electrophoresis, and Southern blotting. Ideal candidates possess training in immunological assays (Western blotting, Elisa, Elispot, CTL, and others), and experience with small animal handling would be an advantage. We expect strong communication skills combined with the ability to work autonomously as well as within a team framework. Moderate computer skills are also required.

We offer a comprehensive salary and benefits package, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for professional growth. For consideration, please forward your resume and a cover letter indicating salary requirements, to: **Merck Positions, PO Box 92164, PAF Code: XHXMRS MKH06300, Los Angeles, CA 90009-2164**. E-mail: merck@resume.isearch.com Fax: (310) 337-3393. Please refer to the PAF Code in your correspondence. Qualified candidates will be contacted. We are an Equal Opportunity Employer, M/F/D/V.





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Contributing strong scientific expertise to the group, the candidate will be involved in the development of innovative algorithms for the automated analysis of biological data (Gene expression, SNP's, EST-sequences) and will participate in the development of our integrated biological information resource. Project leadership experience in the areas of data mining, protein modelling, differential gene expression and/or sequence analysis is required. The position requires a Ph.D. in Biology, Computer Science or related disciplines.

E-mail enquiries to:
massimo.deFrancesco@serono.com

Cell Culture Scientist

Technical responsibilities extend from strain / cell banking, culture optimisation and fermentation to protein extraction and initial downstream processing. Managerial responsibilities include the supervision of a group of 6-7 scientists and technicians. The ideal candidate will have a PhD degree in biochemical engineering and 5 years experience in this field. Experience in mammalian cell culture, operation of cell culture reactor systems and production of cell derived products is required. Additional experience in recombinant protein production with other technologies (E.coli, baculovirus) would also be an advantage.

E-mail enquiries to: alain.bernard@serono.com

Bioinformatics Postdoctoral Fellow

To develop new algorithms and strategies for in-silico target identification and validation. The main focus will be the identification of new members of particular protein families by analysing public and proprietary biological information encompassing sequence, structure and expression. The candidate must have experience in biological data mining and in-depth understanding of bioinformatics tools. The position requires a Ph.D. in the Physical, Biological or Computational Sciences and strong computer skills.

E-mail enquiries to: massimo.deFrancesco@serono.com



If you are interested, please send your curriculum vitae with a list of publications and the names of three referees to the Human Resources Department of the Institute (quoting the advertisement source).

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In this position, you will be responsible for implementing safety assessment studies of DNA vaccine and gene therapy vectors. These studies include investigation of tissue distribution and the potential integration of the vector DNA into host cellular DNA. Other potential projects include investigating the effects of tumor promoters on cell cycle and signal transduction pathways. The qualified candidate must have a BS or MS degree in the Biological Sciences, with 2-3 years of relevant laboratory experience. Excellent verbal and analytical skills are required.

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The Assistant Administrator for Defense Programs (DP) seeks two outstanding scientists (Ph.D. level preferred) to lead Headquarters planning and coordination of DP activities at national laboratories and universities in the areas of high energy density physics and materials science and physical data research. Areas of scientific emphasis within high energy density physics include hydrodynamics, radiation transport, and properties of matter under extreme conditions. The materials science and physical data research program involves the study of the thermodynamic, mechanical, radiative, and nuclear properties of nuclear and non-nuclear stockpile materials. Applicants should have demonstrated technical excellence within these respective areas.

In addition to these senior positions, other technical and management positions are likely to become available at a variety of levels in DP.

Salary range is \$101,565 to \$130,200. U.S. citizenship required. For additional information contact **Suzanne Carrillo (202-586-8699)**. Reference announcement #ETR-00-EXC-50-008 and #ETR-00-EXC-50-009. You can also access www.hr.doe.gov/pers/doejobs.htm to obtain a copy of the VA. Applications need to be postmarked no later than August 11, 2000.

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nature neuroscience

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Nature Neuroscience is a leading monthly journal from the publishers of *Nature*, which publishes high-quality papers in all areas of neuroscience, including molecular, cellular, systems, cognitive and computational studies, and provides a highly visible forum for communicating important advances to a broad readership. Further information about the journal may be found on our web site at <http://www.nature.com/neuro>.

Nature Neuroscience has a temporary position available for an Assistant Editor. The successful applicant will start in early October, covering for a current editor's leave of absence, and work full-time in our Manhattan office for six months. This is an exciting opportunity to participate in running a major scientific journal without making a long-term commitment, and the experience gained would be a substantial asset for anyone looking to obtain an editorial position at another journal, possibly within the Nature publishing group. Applicants should have a strong research background in neuroscience (molecular research preferred), a broad interest in the subject, excellent literary skills, and a commitment to the communication of scientific ideas.

The successful candidate will participate in all aspects of the editorial process, including manuscript selection, commissioning and editing News and Views and Reviews, and writing for the journal. The job also involves traveling to scientific meetings, and maintaining contact with the international scientific community. The new editor will join the larger publishing group that also produces *Nature Genetics*, *Nature Medicine*, *Nature Biotechnology*, *Nature Structural Biology* and *Nature Immunology*.

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in any area of neuroscience, and a cover letter explaining your interest in the position to The Editor, *Nature Neuroscience*, 345 Park Avenue South, New York, NY 10010 (fax: 212-696-0978; e-mail: neurosci@natureny.com). Applications should arrive as soon as possible, and **no later than 30 July 2000**.



AstraZeneca is one of the world's leading pharmaceutical companies, with approximately 50,000 employees. Operations are based on innovative research and development of pharmaceuticals in a number of major therapeutic areas. AstraZeneca has a highly developed marketing organisation around the globe, with a number of world-leading products. Production is conducted in some 20 countries. For further information, see: www.astrazeneca.com.

AstraZeneca R&D Mölndal conducts research on cardiovascular and gastrointestinal diseases. The unit has approximately 1,500 employees.

Enabling Science and Technology (EST) is a global multidisciplinary function in the AstraZeneca drug discovery organisation. An essential component of the EST strategy is to establish three integrated multidisciplinary EST Centres at the AstraZeneca R&D sites in Mölndal (Sweden), Alderley Park (UK), and Boston (USA). At these Centres, we will aim to exploit the scientific synergies at the interfaces of Chemistry, Biology, and Informatics.

ONE GLOBAL FORCE

FIRST FOR INNOVATION

THE EST CENTRE IN MÖLNDAL (SWEDEN)

The scientific disciplines at the EST Centre in Mölndal will be Structural Chemistry, HTS, and Chemical Computing (Structural Chemistry is already firmly in place). This constellation of disciplines will allow us to converge rational and empirical approaches to drug discovery.

THE CHEMICAL COMPUTING GROUP AT THE EST CENTRE IN MÖLNDAL

To augment what is already a very powerful multidisciplinary unit, a new Chemical Computing Group will be set up at the Mölndal EST Centre. Some of the capabilities and skills required in the new Group are computational chemistry, informatics, structure-based design, and combinatorial library design. For more information about the required capabilities, see the full text on our website.

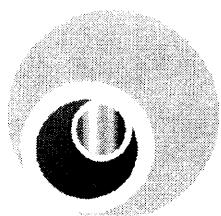
We are now seeking suitable candidates for an appointment as Group Leader, as well as for both junior and senior positions at Scientist level. Descriptions of these positions are available at our Website:

www.astrazeneca.com/chemistry/molndal/site_molndal.htm

Candidates interested in contributing to the momentum of success at AstraZeneca, please forward your resumé, no later than July 21, to: AstraZeneca R&D Mölndal att. Victoria Persson, 431 83 Mölndal Sweden, Victoria.Persson@astrazeneca.com. For further information, please contact **Bob Carter +46 31 776 16 21 or email: bob.e.carter@astrazeneca.com**. Diversity is the essence of our science, our careers and our lives. We are an equal opportunity employer.

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Farmington, Connecticut, USA
October 8-12, 2000**

Like the previous meeting, this conference shall continue **"to critically examine the role that heat shock proteins (HSPs) play in immune responses and to explore the potential uses of HSPs in modulating such responses"**. Prof. Pramod Srivastava (Connecticut, USA) shall chair the conference. The Organizing Committee for the conference consists of Drs. Michael Heike (Mainz, Germany), Zack Li (Connecticut, USA), Antoine Ménoret (Connecticut, USA), Elizabeth Repasky (Buffalo, USA), Heiichiro Udon (Nagasaki, Japan), and Richard Vile (Rochester, USA).

Confirmed speakers at the Conference are: R. Amato (Houston), P. Anderson (Boston), S. Basu (Farmington), R. Binder (Farmington), S. Calderwood (Boston), R. DeSantis (Napoli), D. Forsdyke (Ontario), M. Heike (Mainz), L. Hightower (Storrs), R. Kiessling (Stockholm), H. Kolb (Dusseldorf), Z. Li (Farmington), A. Ménoret (Farmington), C. Nicchitta (Durham), E. Repasky (Buffalo), S. Sastry (New York), N. Sato (Sapporo), H. Schild (Tubingen), T. Spies (Seattle), J. Subjeck (Buffalo), H. Udon (Nagasaki), W. van Eden (Utrecht), R. Vile (Rochester), A. von Bonin (Hamburg), R. Young (Boston).

Topics to be discussed at the conference will include:

- HSP-peptide complexes as vaccines against cancers and infectious agents, including results from completed and ongoing clinical trials.
- Structural insights into HSP-peptide interaction.
- Evolution of immunological properties of HSPs.
- Role of HSPs in antigen presentation by MHC molecules.
- Role of HSPs in innate immunity.
- HSPs as immunomodulators and as targets of autoimmune response.

The deadline for registration and for submission of abstracts is August 15, 2000. Student and post-doctoral travel grants will be awarded based on the scientific quality of the submitted abstracts. This conference is being sponsored by the Cell Stress Society, Antigenics, CambriaTech, Elan Corp., Immunex, and AstraZeneca. For further information, please contact:

Ms. Susan Wasik
Conference Secretariat
swasik@snet.net
FAX: 860-829-2351

*Further information is available at our new web site:
<http://www.hspimmunity.com>*



**ROBERT C. BYRD
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OF WEST VIRGINIA UNIVERSITY

**Director of Neuroimaging
for the Center for Advanced Imaging**

The School of Medicine seeks a qualified individual to lead formation of a **Neuroimaging Research Group**. The successful candidate will recruit **5 additional neuroscientists** to form a vigorous, cohesive research team qualified to acquire multi-investigator and program project funding to study brain function. Facilities at the Center for Advanced Imaging include a newly acquired 3T MR scanner, 1.5 T MR scanner, PET scanner, cyclotron and chemistry facilities and ample space for program development and new laboratories. Formation of the Neuroimaging Research Group parallels establishment of an Imaging Sciences Research Group at our Center, comprised of experts in MR and PET physics, radiochemistry, image processing and optical imaging techniques. Collaborative opportunities exist with scientists in the new **Blanchette Rockefeller Neurosciences Institute**, which is dedicated to the study of learning and memory processes.

The Director of Neuroimaging should have a strong record of obtaining extramural research funds, leadership abilities, and be able to work congenially with other scientists and administrators. Preference will be given to candidates whose expertise includes investigations of learning and memory in normal or pathological states using functional brain imaging. All new faculty will be provided attractive startup packages. Applicants should send statements of their research interests and the mission for the Neuroimaging Research Group they would create, a curriculum vitae, selected reprints, and names of three references by September 30 to **George Spirou, Ph.D., Search Committee Chair, Department of Radiology, West Virginia University HSC, Morgantown, WV, 26506-9236.**

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Senior Research Scientists

Praelux, a dynamic subsidiary of Amersham Pharmacia Biotech, is seeking exceptional Scientists for its program in biological fluorescence imaging. This program combines state-of-the-art microscope technology development with innovative assay biology research.

SENIOR SCIENTIST — Fluorescence Microscopy & Image Analysis

Candidates should have a Ph.D. in Physical Science. Experience with biological samples is preferable; facility in optical measurements is strongly desirable; and a demonstrated ability to learn quickly and think broadly about measurement strategies, applied to a range of problems, is essential. Activities will include design and construction of prototype imaging systems, acquisition of image data on a variety of live-cell assays, and development of novel image analysis strategies critical to enabling automated, high-throughput, research-quality imaging. **DEPT. FM**

SENIOR SCIENTIST — Biology

Candidates should have a Ph.D. in Molecular/Cell Biology, strong leadership skills and the ability to work in a high-performance environment. Experience with cell cultures, fluorescence imaging and drug screening protocols is preferable. Responsibilities will include developing assay biology and interfacing with pharmaceutical companies to achieve rapid implementation of novel drug discovery protocols. **DEPT. B**

Positions present the opportunity to join an exceptional team in a multi-disciplinary environment, requiring innovative thinking in fields from physics to physiology. Salary and benefits package geared to attract high caliber candidates.

Praelux is located in Lawrenceville, NJ, adjacent to Princeton. Mail, fax or e-mail cover letter and resume indicating DEPT CODE of position desired to:

**HR Manager, PRAELUX INC., 17A Princess
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620-0222; E-mail: iweston@praelux.com.**
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Sr. Scientist – GPCR Biology

Apply your demonstrated leadership capabilities and creativity in resolving issues and designing critical experiments as you contribute to a research and drug discovery effort focused on a series of chemokine receptors and other GPCRs important in the initiation and maintenance of inflammation. You'll help create novel ligand binding and signaling assays for high throughput screening and biological characterization of screen leads. We seek a Sr. Scientist with a PhD in Biochemistry, Pharmacology or Molecular Biology and at least 6 years postdoctoral experience in the areas of GPCR biology or drug discovery.

Sr. Research Associate – GPCR/Inflammation Receptor Pharmacology

Work on assay development and small molecule antagonist characterization for GPCR targets important in the initiation and maintenance of various inflammatory diseases. You will develop HTS-ready binding and functional cell-based assays for chemokine receptors and other GPCRs and assist in characterizing the binding and functional potency and selectivity of small molecule antagonists from potential lead series for several inflammation receptor targets. You'll need a BS or MS in Biochemistry, Molecular Pharmacology or a related biological science and a solid understanding of ligand binding and ligand displacement assays.

Sr. Research Associates – Molecular Pharmacology

You'll be responsible for characterizing the affinity, absorption properties, metabolic stability, toxicity, selectivity, and species specificity of chemical compounds from several potential lead series at targets important in inflammation, including human C-C and C-X-C chemokine receptors. We require a BS or MS in a Biochemistry or related biological science and a solid pharmacological background with previous experience in at least 1 drug optimization program. An understanding of ligand binding and ligand displacement assays is needed.

Sr. Research Associates – Synthetic Chemistry

Take responsibility for executing multi-step synthesis, including purification, analysis and identification of compounds/scaffolds, execution of parallel synthesis (solution/solid phase), and analysis of small molecule libraries in hit-to-lead or lead optimization phases in Medicinal Chemistry programs. We require a BS with 5+ years experience in an industrial laboratory, or an MS with 3+ years experience. Expertise in conducting multi-step syntheses of drug compounds/scaffolds (NMR, HPLC, TLC) and in-depth knowledge of purification techniques are essential.

Research Associates – Enzymology

We'll rely on you to develop and configure assays for several classes of enzymes, including proteases and kinases, and generate standard operating procedures to maximize the efficiency of drug discovery. Ideal candidates will have a BS/MS in Biochemistry, Biology, or Chemistry. Demonstrated experience (0-2+ years) in enzyme kinetics analysis/assay development and protein purification/modification in an industrial or pharmaceutical environment is preferred.

Associate Director – In Vivo Tumor Biology

As part of a group committed to developing tumor-specific antibodies, you'll lead an effort to evaluate potential candidate therapies using genetically engineered cell and animal models. A strong background in tumor biology is required, along with a PhD in Molecular Biology, Tumor Immunology or Pharmacology and 5 years of biotechnology or pharmaceutical experience.

Scientist – Protein Purification

Join a multidisciplinary program aimed at creating high throughput screens for novel protein targets and take responsibility for purifying and characterizing multiple and diverse protein targets. You'll need a PhD, 3+ years postdoctoral experience and outstanding skills in general protein biochemistry. We also require familiarity with operating sophisticated equipment and skills in protein purification techniques (LC, HPLC, protein assays, etc.). Supervisory experience preferable.

Join us in building the biopharmaceutical company of the future at our Cambridge facilities. Please respond by sending only one resume using only one of the following methods, indicating the positions you are interested in. Mail your resume to: Millennium Pharmaceuticals, Resume Processing Center, Source Code SC63000, PO Box 798, Burlington, MA 01803. Email: millennium@rpc.webhire.com. Fax: (800) 370-6925. A source code must be included with all submissions. We are an equal opportunity employer committed to discovering the individual in everyone.

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PHARMACOKINETICIST

We seek a collaborative professional to be involved in interpreting and analyzing registration-enabling nonclinical studies in support of lead drug candidate development programs. Responsibilities include: review, design, and data analysis of nonclinical pharmacology, pharmacokinetics (PK)/metabolism, and toxicology studies; preparation of regulatory documents for submission to FDA and other regulatory agencies. The ideal candidate will possess at least 3-5 years of relevant pharmaceutical or CRO experience and a Ph.D. or Ph.D./DVM in a basic medical science with concentrations in toxicology and experience with animal models. Basic knowledge of drug development principles and broad training in biological/medical sciences is required as well as a good working knowledge of computer applications and use. Familiarity with common software tools for PK analysis and experience using PK/PD modeling and simulation techniques are desired. The professional that we select will have strong oral and written communications skills and the proven ability to work in a team environment.

We offer a competitive compensation and benefits package. Please mail, fax or e-mail your resume and salary requirements to **Otsuka America Pharmaceutical Inc., Human Resources Department, Job Code AS/NB-1, 2440 Research Blvd., Rockville, MD 20850. Fax: (301) 721-7187. E-mail: humanresources@mocr.oapi.com.** No phone calls, please.

EEO/M/F/D/V. Women and minorities are encouraged to apply.

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GLOBAL OPPORTUNITIES

IRRI

International Rice Research Institute

Position Announcement for AFFILIATE SCIENTIST WEED SCIENCE

The International Rice Research Institute (IRRI) is seeking an Affiliate Scientist as a member of its research staff in weed science. IRRI, located in Los Baños, Philippines, is supported by the Consultative Group on International Agricultural Research (CGIAR) as a nonprofit, autonomous organization engaged in research and outreach on rice-related technology. Interested candidates can learn more about IRRI and its activities by visiting the Institute's Web site at <http://www.cgiar.org/irri>.

The Affiliate Scientist is expected to develop a mechanistic understanding of the competitive interaction of rice and weeds and how this relationship is affected by management practices. The incumbent will collaborate with a multidisciplinary team of agronomists, plant breeders, and weed and water scientists to test hypotheses through field and greenhouse experimentation and modeling with the goal of developing more competitive rice cultivars as well as improved management practices—especially water. Collaboration with national agricultural research and extension systems and advanced research organizations is an integral component of the project.

Candidates should have a Ph.D. in agronomy, weed science, or a related discipline with 2-3 years of post Ph.D. experience. Experience in crop and/or weed modeling is desirable. The position is based at IRRI Headquarters. Salary and benefits are internationally competitive. IRRI offers children's education allowances, medical insurance, and other attractive benefits. The Institute provides a gender-sensitive work environment and particularly welcomes women applicants. Applicants should send a comprehensive curriculum vitae and details of three references (including email and/or fax address) to IRRI addressed to:

Dr. Renee Lafitte
Crop Physiologist
IRRI, MCPO Box 3127
Makati City 1271
Philippines
Fax: (63-2) 891-1292
E-mail: r.lafitte@cgiar.org

Applications will be accepted until
31 July 2000, or until a suitable applicant pool is established.

Please refer to code IR2K-ASWS-01.

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Eli Lilly and Company Program in Nuclear Receptor Research

Eli Lilly and Company is devoted to the identification of novel nuclear receptor ligands and targets involved in tissue-specific receptor functions. As a proven leader in the area of selective steroid hormone modulators, our program in nuclear receptor research continues to become a major force in the nuclear receptor biology field and represents Lilly's substantial commitment to maintaining excellence in drug therapy development. Lilly's continued success in nuclear receptor research will have significant impacts in women's health, cancer, obesity, as well as endocrine, cardiovascular and central nervous system diseases and disorders.

RESEARCH SCIENTISTS

Dr. William Chin, Vice President, Gene Regulation Research and director of the program in nuclear receptor research, is seeking multiple scientists to lead drug discovery groups. Successful candidates will possess outstanding independent research experience with nuclear receptors and other transcription factors with proven expertise in molecular endocrinology, molecular biology, pharmacology, biochemistry, physiology, and/or cell biology. Investigators will assemble and direct scientists in the identification of new drug targets involved in tissue-specific nuclear receptor action and the discovery of novel ligands interacting with these transcription factors. Research in an integrated environment of cross-functional research arenas will contribute to the candidate's success.

Successful candidates should possess a PhD, MD-PhD or MD and 3+ years of postdoctoral research experience in one of the above mentioned fields.

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National Heart, Lung & Blood Institute / NIH Postdoctoral Research Fellow

The Laboratory of Cardiac Energetics, National Heart, Lung & Blood Institute, NIH is offering a postdoctoral Research Fellow positions in the laboratory of Dr. Robert S. Balaban for an individual who would investigate the cellular signaling pathways involved in the control of mitochondrial energy conversion and other functions.

Research will focus on the mathematical modeling/simulation of the cystolic control network regulating mitochondrial function. Specifically, a comprehensive simulation of the cystosol as it relates to mitochondrial function during work and ischemic transitions will be developed that includes cellular topology, enzyme distributions, transporter kinetics, regional diffusional barriers, etc.

These simulations will be performed in close collaboration with the cellular physiology group in the lab, providing key morphology and conventional biochemical techniques. Applicants should have completed a Ph.D.

Experience in mathematical simulation and modeling is desirable. Interested candidates should submit a statement of interest, curriculum vitae, bibliography, and a list of three references to Ms. Caroline Leake, Building 10, Room B1D416, 10 Center Drive MSC 1061, Bethesda, MD 20892-1061.

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Postdoctoral Position

The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) of the National Institutes of Health (NIH) is seeking an exceptional candidate to fill a postdoctoral position in the Laboratory of Physical Biology, to study the biochemistry and cell biology of the muscle and cardiac junctional protein N-RAP (Cell Motil. Cytoskeleton 38: 75-90, 1997; Biochem. 38: 6135-6143, 1999). Experience in protein expression/purification, tissue culture, yeast two-hybrid techniques, or fluorescence microscopy is desirable. Applicants should have less than five years of postdoctoral laboratory experience. Send a curriculum vitae and have three letters of recommendation sent to:

**Dr. Robert Horowitz, NIAMS
National Institutes of Health
Building 6, Room 408
6 Center Drive MSC 2755
Bethesda, MD 20892-2755
Email: horowitz@helix.nih.gov
Telephone: 301-435-8371
Fax: 301-402-0009**

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POSITIONS OPEN

ASSISTANT PROFESSOR (Nontenure Track) DEPARTMENT OF NEUROBIOLOGY

The Department of Neurobiology at the University of Alabama at Birmingham (UAB), School of Medicine, invites applications for a nontenure-track position at the Assistant Professor level. The Department is seeking an outstanding individual who has at least three years of postdoctoral experience with biophysical and electrophysiological experimental approaches. The successful candidate will work in the well-equipped laboratory of Professor and Chair Dr. Michael Friedlander, utilizing new state-of-the-art combined patch clamp electrophysiological recording and high-resolution intracellular calcium imaging to study the developmental regulation of calcium-mediated induction of synaptic plasticity in brain slice preparations. Beginning in the second year of the appointment, the candidate may develop their own independent research project for which they may seek independent extramural funding for half of their research time commitment. The Department currently has a strong base of molecular and cellular neurobiologists studying problems of receptor and ion channel function and signal transduction in neurons and glia. 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 Sixth Avenue South, CIRC 516, University of Alabama at Birmingham, Birmingham, AL 35294-0021** by July 31, 2000. *University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.*

THE WESTON VISITING PROFESSORSHIPS 2001/2002

The Erna and Jakob Michael Visiting Professorships
2001/2002

The Joseph Meyerhoff Visiting Professorships
2001/2002

The Rosic and Max Varon Visiting Professorships
2001/2002

The Morris Belkin Visiting Professorship
2001/2002

The Weizmann Institute of Science, Rehovot, Israel, offers a limited number of Visiting Professorships in the Natural and Exact Sciences during the academic year of October 2001 to September 2002.

The Visiting Professorships are intended for candidates already holding the rank of **FULL PROFESSOR** or equivalent and will be for a duration of two months to one year. It is highly advisable to establish prior contact with the prospective host/department. Deadline for submission of completed applications: December 31, 2000.

For further information or application forms, please contact: **The Academic Secretary, The Weizmann Institute of Science, Rehovot 76100 Israel. FAX: 972-8-9471667; e-mail: Academic.Secretary@Weizmann.ac.il.** Applications and information are also available on the Internet at website: http://www.weizmann.ac.il/acadsec/visit_prof_home.html.

SCIENTIFIC VISUALIZATION TECHNOLOGY

Vassar College seeks an **INSTRUCTIONAL COMPUTING CONSULTANT** who will work with faculty and students using scientific visualization software in physics, biology, chemistry, geology/geography, and psychology. S/he maintains a new visualization laboratory of about 30 computers. See website: <http://depts.vassar.edu/~cis/aboutcis/jobs/scviz.htm>.

POSTDOCTORAL POSITION available immediately to initiate project involving creation of transgenic mouse models for elucidating the role of sphingolipid metabolites in atherosclerosis and ischemia/reperfusion injury. Applicants with a strong background in molecular biology are encouraged to apply. Send curriculum vitae and three references to: **Julie Saba, M.D., Ph.D., Children's Hospital Oakland Research Institute, 5700 Martin Luther King Jr. Way, Oakland, CA 94609. FAX: 510-450-7910.**

POSITIONS OPEN

RESEARCH ASSOCIATE needed to study lymphoid and hematopoietic toxicity of ionizing radiation. A Ph.D. and/or M.D. degree or foreign equivalent along with a strong background in molecular and cellular biology are necessary. Send curriculum vitae and references to: **Daohong Zhou, M.D., Department of Internal Medicine, University of Kentucky, K529 Kentucky Clinic, Lexington, KY 40536-0284. E-mail: daozhou@pop.uky.edu; FAX: 606-323-1197. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer and Educator.**

MOLECULAR PATHOGENESIS

The University of South Dakota School of Medicine, Division of Basic Biomedical Sciences, invites applications for two tenure-track faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Individuals are being sought with research interests in host-parasite interactions. Candidates working with both microbial parasites (viruses, bacteria, and eukaryotic pathogens) and molecular parasites (phages, plasmids, and transposons) will be considered. Preference will be given to those candidates whose projects complement those of existing faculty as we seek to build on current strengths to establish a core group of researchers in this area. Candidates must have a Ph.D., M.D., or equivalent; postdoctoral experience; and a high potential for external funding. The successful candidate will be expected to participate in teaching of medical and graduate students. Rank and salary will be commensurate with qualifications. Please submit curriculum vitae, a brief statement of research and teaching experience, and the names and addresses of three references to: **Ms. Carleen McNeeley, Molecular Microbiology Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, Vermillion, SD 57069.** Review of applications will begin August 31, 2000, and continue until position is filled. *University of South Dakota is an Equal Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL/STEM CELL BIOLOGIST

An **ASSISTANT SCIENTIST** position is open in the Division of Reproductive Sciences at the Oregon Regional Primate Research Center/Oregon Health Sciences University (ORPRC/OHSU) for a Developmental/Stem Cell Biologist. The position includes a joint appointment in the appropriate academic department at OHSU. Excellent start-up support and laboratory space is available at ORPRC. We seek individuals who are using molecular, genetic, and/or cell biological approaches to explore developmental processes in mammals through use of stem cell technology, gene targeting, conditional gene expression, or other modern approaches. Please send your curriculum vitae, the names of three references, and a statement of research goals including the potential use of primates in your research program to: **Robert M. Brenner, Chair, Search Committee, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. E-mail: BrennerR@ohsu.edu.** The search will remain open until the position is filled. *ORPRC/OHSU is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS are available to study signaling and intracellular trafficking of tyrosine kinase receptors. Research will utilize various biochemical, biophysical, and morphological methods including FRET microscopy. Training in molecular and cell biology is helpful. Salary is competitive. Please send curriculum vitae and the names of references to: **Dr. Alexander Sorkin, Department of Pharmacology, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: alexander.sorkin@uchsc.edu.**

University of Colorado Health Sciences Center is committed to Equal Employment Opportunity/Affirmative Action.

POSITIONS OPEN

RESEARCH CHEMIST who will be responsible for developing and performing the enantioselective synthesis of the desired drug candidates; selecting the proper chiral HPLC columns for both the determination of enantiomeric excess in the analytical scale and the separation in the preparative scale; designing and synthesizing chiral heterocycles as potential stationary phases for the enantioseparation of novel organic molecules; researching the 3-D chiral recognition mechanism of Pirkle-type chiral columns such as Whelk-O and a-Burke II columns; utilizing knowledge of computational molecular modeling to find global minimum energy conformations of selector molecules; investigating the energetics of nonbonding interactions between the chiral selectors and various analyte enantiomers by doing *ab initio* calculations of the dipole moments and charge distributions in chiral selectors and for various analyte molecules; utilizing knowledge of chiral Cyclodextrin and Chiral-Pak AD and AS columns; conducting sequential recrystallization to obtain pure enantiomer; utilizing computational chemistry techniques and molecular modeling software such as InsightII and MacroModel under UNIX operation systems for energy minimization, molecular dynamics, and simulation to design more potent drug candidates; designing and synthesizing novel organic compounds for pharmaceutical evaluation from milligram to kilogram scale with minimum supervision; conducting multistep and library synthesis; optimizing reaction conditions and developing new routes to prepare desired compounds in a scalable process; conducting olefin metathesis, Suzuki coupling, and Sharpless asymmetric epoxidation for the organometallic synthesis of new drug candidates; operating state-of-the-art instruments, including NMR spectrometer, GC, GC-MS, FT-IR, UV-VIS, MPLC, and normal/reverse phase and automated and Waters HPLC (both analytical and preparative scale) systems; interpreting NMR spectra, LRMS and typical fragmentation patterns, and HRMS; and designing new routes and/or applying existing methods for the synthesis of the desired compounds and to acquire scientific and patent information on molecules of interest. Degree requirements include a minimum of a Master's of Science in chemistry or organic chemistry combined with one year and zero months of experience in the job offered or one year and zero months of experience as a graduate and/or research/teaching assistant. Work experience must include designing and synthesizing chiral heterocycles as potential stationary phases for the enantioseparation of novel organic molecules, utilizing knowledge of computational molecular modeling to find global minimum energy conformations of selector molecules, and investigating the energetics of nonbonding interactions between the chiral selectors and various analyte enantiomers by doing *ab initio* calculations of the dipole moments and charge distributions in chiral selectors and for various analyte molecules. Course work must include advanced organic chemistry: structure, advanced organic chemistry: reaction mechanisms, advanced organic chemistry: synthesis, and experimental organic chemistry. Forty hours per week; 8 a.m. to 5 p.m.; \$66,500 per year; St. Louis location. *Must have proof of legal authority to work permanently in the United States.* Send two copies of both résumé and cover letter to: **Missouri Department of Labor and Industrial Relations, Division of Workforce Development, Attention: Ms. J. Gaston, 4040 Seven Hills Drive, Suite 166, Florissant, MO 63033-6700.** Please include Job Number 228289. No calls. An employer-paid ad.

POSTDOCTORAL POSITION is available to study molecular cell biology of inducible human nitric oxide synthase. Ph.D. or M.D. and experience in molecular biology, cell biology, and/or biochemistry are desired. Apply to: **Dr. N. T. Eissa, Baylor College of Medicine, 6565 Fannin, FBRN B567, Houston, TX 77030. FAX: 713-793-1445; e-mail: nteissa@hotmail.com.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*



CURAGEN's rapid growth has created new career opportunities. We currently have openings for individuals with backgrounds in molecular biology, biochemistry, biology engineering, bioinformatics, medicine and other related fields. Successful CuraGen employees are exceptionally organized, have an entrepreneurial spirit, a passion for their work, and thrive in a challenging, team oriented environment. We are currently seeking highly driven individuals for the following positions:

Project Leader/Sequencing & Expression Methods

Responsibilities include development of new technologies and processes including optimization of expression and sequencing methods. 2+ years of management experience required. Ph.D. preferred. Job Code: 173-99

Bioinformatics

Positions available, include: Project Leader/Research Scientist/Senior Software Developer/Lead Software Developer. Candidates must have a Masters or Ph.D. in biological or computer sciences. Preferred candidates have worked with gene expression, sequence, protein pathway, or other genomic data. Experience working on large-scale software projects is desired, with experience in three of the following: Java, C/C++, pl/SQL, object-oriented design, relational databases, or Perl. Job Code: 013-00

Research Scientist/Drug Development

In this position, you will be part of a team dedicated to identifying and developing drug candidates in oncology or inflammation/autoimmunity. A proven ability to characterize the in vitro and in vivo activity of proteins or monoclonal antibodies is essential. Ph.D. required. Job Code: 257-99.

Please send cover letter, resume / CV and 3 letters of recommendation. EOE

Lead Discovery and Neuroscience

AstraZeneca is a worldwide leader in the research, development and marketing of innovative pharmaceuticals. Our portfolio spans seven major therapeutic areas — a formidable array of products backed by a strong research base. We currently have openings in our Wilmington, DE research facility for the following scientists:

Senior Scientist Neurochemistry (NS-3840)

You will design, conduct and interpret results of microdialysis experiments, which will assist projects with issues of compound effect on modulation of neurotransmitter release. You will also apply your knowledge and experience to screen the effect of compounds in CNS models, and contribute to the understanding of the mechanistic basis of their action.

You should possess a PhD in Neuroscience with at least 5 years' experience in an industrial or academic environment, long-term experience and in-depth knowledge of in vivo neurochemistry, receptor neuropharmacology and systems neuroscience. Expertise in HPLC techniques and in vivo microdialysis is essential.

Neurochemist (NS-3841)

You will be involved in neurochemical studies aimed for screening the effect of compounds in CNS. On a daily basis, you will support the microdialysis and other projects in the Section of Neuroanatomy and Neurochemistry.

You must have a BS degree in Neuroscience and 2-3 years' experience in an industrial or academic environment. You should also have excellent knowledge of HPLC-EC analysis of neurotransmitter content and turnover. Knowledge of in vivo microdialysis, analysis of neurotransmitter release and receptor binding is a plus.

Enzymologist Team Leader (LD-3897)

You will lead all aspects of an in vitro profiling campaign from post-HTS through LO. This includes developing, optimizing and running multiple biochemical assays as part of a cross-discipline drug discovery project team.

You must have a PhD in the biological sciences plus 2-5 years' postdoctoral experience. A strong background in enzymology and enzyme assay technologies is essential. Experience in developing and running biochemical assays for drug screening and in the use of appropriate software for data analysis is highly desirable. You must understand the molecular mechanisms of drug targets and be able to translate that information into the design of pharmacologically relevant assays for medium throughput screening.

HTS Team Leader (LD-3908)

You will be responsible for conducting and directing laboratory activities necessary for the design, validation and implementation of primary assays in HTS mode.

You should have a PhD in biochemistry or comparable biological science plus 2-5 years' industry experience with in vitro assay development and high throughput screening. You must be able to design and validate miniaturized assays for enzymes, receptors, and cellular function with experience using assay formats amenable to HTS (SPA, FRET, FLIPR, FP, etc.).

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To apply, please send your c.v. with job code to: **Human Resources-NS/LD, OW3, AstraZeneca, 1800 Concord Pike, P.O. Box 15437, Wilmington, DE 19850-5437. Fax: 302-886-7124.**

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POSITIONS OPEN

SENIOR FACULTY POSITION IN PROTEIN NMR SPECTROSCOPY

The University of Alabama in Huntsville
Huntsville, Alabama

The University of Alabama in Huntsville (UAH) is seeking a Senior Faculty Member in science or engineering with research interests in the use of NMR spectroscopy to define the structure and function of proteins and molecules of biological interest. Funds are available to establish a high-resolution NMR spectroscopy facility, including a 750 MHz or similar instrument. The faculty member will be expected to help lead a new research/graduate initiative in biotechnology. Current areas of research strength are structural biology, genetics and molecular biology, bioprocess and biocatalytic engineering, biological fluid dynamics, surface spectroscopy, natural products drug discovery, and protein crystal growth/microgravity. A new biotechnology Ph.D. program is expected to begin accepting students for January 2001.

UAH, one of the three institutions in the University of Alabama system, is a Carnegie Doctoral II university. Current enrollment is approximately 7,000. The Ph.D. is awarded in disciplines in physical science, engineering, mathematics, and computational science. Federally supported research expenditures exceed \$35 million per year.

Huntsville is strategically located in the Tennessee Valley of north Alabama and is the home of NASA's Marshall Space Flight Center, the Army's Redstone Arsenal, and many high-technology industries. The biotechnology industry in Huntsville is growing rapidly with major emphases in genomics, drug design, drug delivery, and skin bioscience. The city of Huntsville is rich in cultural and recreational activities and enjoys one of the highest per capita incomes in the Southeast. The population of the metropolitan area is approximately 340,000.

Candidates must have an earned doctorate with credentials in research and teaching appropriate for appointment as **PROFESSOR** with tenure in one of the academic departments at UAH. A joint appointment between two academic departments is possible. A strong record of funded research is expected.

Nominations and applications will be received and reviewed until the position is filled. Applications should include curriculum vitae; description of research program; and the names, addresses, and telephone numbers of five persons who can provide professional references for the candidate. For more information about UAH and Huntsville, Alabama, please visit **websites: www.uah.edu and www.ci.huntsville.al.us**. Nominations and applications should be sent to:

Dr. John D. Fix
Biotechnology Search Committee
Office of the Dean
College of Science
C207 Materials Science Building
The University of Alabama in Huntsville
Huntsville, AL 35899

The University of Alabama in Huntsville is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the role of intercellular communication in cellular differentiation and cancer, especially as it relates to metastasis. Ideal candidate will have a Ph.D. in cell or molecule biology. This is a unique opportunity in a very well-funded, highly interactive laboratory. Send curriculum vitae and the names of three references to: **Henry J. Donahue, Ph.D., Musculoskeletal Research Laboratory, Pennsylvania State University College of Medicine, Hershey, PA 17033-0850. E-mail: hdonahue@psu.edu.**

POSITIONS OPEN



Thomas
Jefferson
University

POSTDOCTORAL POSITION to study the role of lipid metabolism and phospholipase signaling during zebrafish development using real-time optical biosensors. This project will identify genetic pathways that regulate lipid metabolism and organ development with potential importance in human colon cancer; work will include screening for lipid processing mutants and isolating relevant genes. Send curriculum vitae and references to: **Dr. Steven Farber, Kimmel Cancer Center, Thomas Jefferson University, 1020 Locust Street, Room 484, Philadelphia, PA 19107. E-mail: S_Farber@lac.jci.tju.edu. Equal Opportunity Employer.**

ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY AND CELL BIOLOGY

Two full-time tenure-track positions in the newly renovated Department of Anatomy and Cell Biology are available. Candidates must have a Ph.D., M.D., or equivalent; postdoctoral experience; and an active research program with current or a high potential for attracting external support. Although individuals in a variety of research areas will be considered, preference will be given to scientists engaged in research concerning molecular medicine, cell and developmental biology, molecular neurobiology, or cancer. For one of the positions, preference will be given to investigators who use the zebrafish as an experimental model. Both individuals will be expected to participate in a team-taught course for professional students such as gross anatomy, cell and molecular biology, developmental biology, or neuroscience, and a graduate course in their area of expertise.

For more information, visit our **website: http://www.uiowa.edu/~anatomy/**. Interested individuals should send curriculum vitae, bibliography, a brief statement of research and teaching experience and the names of three references to: **Dr. Mary J. C. Hendrix, Head, Department of Anatomy and Cell Biology, College of Medicine, The University of Iowa, Iowa City, IA 52242.**

The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

CANADIAN TECHNICAL SALES REPRESENTATIVE

Integrated DNA Technologies, Inc., a leading supplier of custom oligonucleotide synthesis and a developer of innovative new biotechnologies, is looking for a dynamic and self-motivated individual to add to its growing International Sales Department. Responsibilities include direct outside sales to academic, government, and industry accounts throughout the Toronto, Ottawa, and Montreal area. Must have more than three years of sales experience in the life science industry or strong academic credentials in molecular biology. Please send your résumé to: **ewalder@iddna.com.**

POSTDOCTORAL POSITION available from October 1, 2000, to study cell surface signal-induced chromatin remodeling mechanisms during lymphocyte activation (see *Cell* 95:625). Projects include identification of signals regulating the mammalian SWI/SNF complexes and search for their target genes. Experience in biochemistry or molecular biology is required. Send curriculum vitae and names of three references to: **Dr. Keji Zhao, Laboratory of Molecular Immunology, National Heart, Lung, and Blood Institute, NIH, Building 10, Room 7N315, MSC 1674, 9000 Rockville Pike, Bethesda, MD 20892. E-mail: zhaok@nhlbi.nih.gov. NIH is an Equal Opportunity Employer.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Immunology and Infectious Diseases at the Harvard School of Public Health is seeking a junior faculty member at the level of Assistant and/or Associate Professor. The successful candidates will be expected to engage in a combination of research and teaching at the graduate level. The applicant should have a Doctoral degree and evidence of postdoctoral research experience. The successful candidates will be expected to conduct research and teaching on the immunology or cell biology of infectious disease(s) important to tropical countries (e.g., malaria) including vaccine development.

Applicants should send a statement of research interests, curriculum vitae, and the names and addresses of three references to:

**Chair, Junior Faculty Search Committee
Immunology and Infectious Diseases
Harvard School of Public Health
651 Huntington Avenue, FXB 402
Boston, MA 02115**

Harvard University is committed to increasing the number of women and minorities in its faculty and especially encourages applications from such candidates.

POSTDOCTORAL POSITIONS available for ongoing project on the role of CD44 receptor in ovarian cancer metastases. Second project on the role of RAD51 in recombination interactions with BRCA-1. Strong background in yeast and human molecular genetics and/or protein biochemistry and/or *in vitro* invasion assays required.

Send curriculum vitae with references to: **Dr. Lorna Rodriguez, The Cancer Institute of New Jersey, 195 Little Albany Street, New Brunswick, NJ 08901.** Regrettably, we can respond only to those candidates chosen for an interview. To learn more about us, visit our **website: http://www.umdj.edu/hrweb/**. *University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

POSTDOCTORAL POSITION available for studying pediatric neurodegenerative diseases such as Krabbe or Niemann-Pick disease. Candidate should have a Ph.D. in neuroanatomy. Experience is required in molecular biology, immunocytochemistry, *in situ* hybridization and gene therapy or bone marrow transplantation therapy using the mouse model. Salary ranges: \$28,000 to \$32,000 per year. Send curriculum vitae, summary of research experience, and three references to: **Dr. Kinuko Suzuki, Department of Pathology and Laboratory Medicine, University of North Carolina at Chapel Hill, CB#7525, Chapel Hill, NC 27599-7525.**

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

ASSISTANT CHAIR/SENIOR SCIENCE EDUCATOR for education department in major natural history museum, planetarium, and aquarium. Helps develop educational programming; plans and implements training for docents; and supervises managers of teacher services, outreach, field services, volunteer services, and docent programs. Qualifications: Ph.D. in a biological science preferred. Minimum of three years of management/supervisory experience. Teaching experience required; college level preferred. Curriculum and program development experience desirable. Full-time; excellent benefits. Please send letter of interest, résumé, and list of three references to: **California Academy of Sciences, Human Resources Department #SSE, Golden Gate Park, San Francisco, CA 94118. Deadline is August 14, 2000. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study disease mechanisms and gene functions involved in retinal degenerations using combined molecular and cell biological approaches. Send inquiry and application to: **Dr. Tiansen Li, Berman-Gund Laboratory, Massachusetts Eye and Ear Infirmary, Harvard Medical School, 243 Charles Street, Boston, MA 02114. E-mail: tli@meei.harvard.edu.**

Faculty Position in Immunology Georgia State University

Applications are invited for an anticipated tenure-track position in Immunology in the Department of Biology at Georgia State University. Appointment will start on or before January 2001. Applicants at the assistant professor level will be expected to establish independent, vigorous, externally funded research programs. Applicants at more senior levels should have well-established, externally funded research programs. Applicants with expertise in aspects of molecular immunology that complement existing research programs within the Cell Biology and Physiology or Molecular Genetics and Biochemistry disciplines are particularly welcome. The successful candidate will be encouraged to interact interdisciplinarily with faculty in the molecular biology, neurobiology and applied and environmental microbiology programs. The appointee will also participate in instruction at the undergraduate and graduate M.S./Ph.D. levels. The Department has excellent research facilities.

For more information see <http://www.gsu.edu/~wwwbio>. Reviews of applications will commence August 1, 2000. Applications including CV, reprints, statement of research plans, and three letters of recommendation should be sent to:

Chair of Immunology Search Committee
Department of Biology
P.O. Box 4010
Georgia State University
Atlanta, GA 30302-4010

Georgia State University, a Research University of the University System of Georgia, is an Equal Opportunity Educational Institution, and an EEO/AA Employer.



HEAD KNOCK-OUT MOUSE CORE FACILITY

NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES
National Institutes of Health
Research Triangle Park, North Carolina

The National Institute of Environmental Health Sciences, National Institutes of Health, in Research Triangle Park, North Carolina, is recruiting to fill a managerial position for the Division of Intramural Research Transgenic Knockout Core Facility Head as a Staff Scientist. The candidate is expected to have expertise in mouse molecular genetics or a related discipline. The successful applicant will serve as a research scientist in the Laboratory of Reproductive and Developmental Toxicology generating mutant mice via embryonic stem cell technologies. Additional duties will include planning and providing scientific oversight in the conduct of targeting vector designing and serving as a resource of expertise regarding mouse genetics and embryology.

Minimum qualifications include a Ph.D., D.V.M. or M.D. in mouse molecular genetics or equivalent. Priority will be given to individuals with more than five years of postdoctoral experience in mouse molecular genetics or a directly related field. Experience in the design of targeting vectors, screening of embryonic stem cells and mouse colony husbandry is essential. For additional information concerning this position, contact Dr. Yuji Mishina at mishina@niehs.nih.gov or fax 919-541-3800. Applications from women and minority groups are particularly encouraged. The initial appointment is for five years and is renewable every five years indefinitely. Salary commensurate with background. Interested parties should submit curriculum vitae, bibliography, brief statement of research interests and arrange for the submission of three letters of recommendation to be sent by July 31, 2000 to:

Mr. Phil Hanson, (HNV00-14)
NIEHS Human Resource Management Branch
P.O. Box 12233, Maildrop EC-11
Research Triangle Park, NC 27709
(919-541-7811)

NIEHS/NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Post-doctoral Position available at NIH

A post-doctoral position is available at the Imaging Physics group of the Laboratory of Cardiac Energetics, NIH, in the area of cardiac magnetic resonance imaging. The Laboratory of Cardiac Energetics, NIH, is one of the leading centers of cardiac MRI research in the world. It is equipped with state of the art scanners, including a 4.7T Varian Inova system, and two GE 1.5T cardiac scanners.

In collaboration with NIH Clinical Center and Suburban hospital, it has the ability to quickly transfer new technologies from the laboratory to the clinical environment. This position will be focused on new cardiac MRI techniques. Candidates must have a Ph.D. in physical sciences. **Prior training and experience with magnetic resonance imaging is preferred.**

Please send CV to Dr. Han Wen
Building 10, Room B1D416
10 Center Drive MSC 1061
Bethesda, MD 20892-1061



NIH is an Equal Opportunity Employer

Postdoctoral Fellowships in Mood and Anxiety Disorders National Institutes of Mental Health Division of Intramural Research Programs National Institutes of Health, Bethesda, Maryland (USA)

The Mood and Anxiety Disorders Program of the National Institute of Mental Health Intramural Research Program has immediate openings for postdoctoral fellows. These are full-time research positions which will last from two to five years at one of the premier research sites in the U.S. for the study of mood and anxiety disorders, at the Bethesda campus of the National Institutes of Health. These positions are open to U.S. and non-U.S. citizens who are 1) recent Ph.D.'s in psychology, cognitive neuroscience, neuroscience, neuropharmacology, computer science, or other applicable disciplines, or 2) M.D.'s with residency training in psychiatry, neurology, nuclear medicine, radiology or other relevant field. The successful candidates will be part of a multidisciplinary team using functional neuroimaging, neurophysiology, neurochemistry, and neuroendocrinology to map brain activity and neurobiological mechanisms associated with normal higher cognitive and emotional function in healthy subjects as well as dysfunction in children, adolescents, and adult patients at risk for mood and anxiety disorders. In addition to collaborative work within the team, he or she will be expected to carry out his or her own research. Possible areas of concentration include: 1) neuroanatomical and neurochemical substrates of higher cognitive and emotional function, 2) effects of early adverse experiences on brain structure and function, 3) effects of psychotropic medications on brain structure and function in children and adolescents with mood and anxiety disorders, 4) development of novel therapeutics for children, adolescents, and adults with mood and anxiety disorders. Send letter of interest outlining experience and research goals, cv/bib, three letters of recommendation, school transcript, and a copy of degree ASAP to Dennis S. Charney, M.D., National Institute of Mental Health, Bldg.10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, MD 20892.

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE POSITION: dendritic cell immunology/immunotherapy research. The focus of this position is to contribute to the further investigation and development of dendritic cell-based vaccines for immunotherapy of human cancer. The successful applicant will participate in a multidisciplinary program primarily interested in the translational aspects of novel dendritic cell-based immunization strategies and in the conduct of scientifically valid clinical trials. Currently, several NIH-funded clinical studies investigating the efficacy of this strategy to induce T cell responses in cancer patients are being conducted by our group. Participation in our program will require an established track record of accomplishments in cellular immunology with particular expertise in immunological monitoring technologies. Applicants with a Ph.D. or M.D./Ph.D. degree should include current curriculum vitae and names of two to three references to: **Ms. Kay Walker, MSRB, Box 2626, Research Drive, Duke University Medical Center, Durham, NC 27710. Telephone: 919-684-9949; FAX: 919-681-7414; e-mail: walke035@mc.duke.edu.** *Duke University is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION INTRACELLULAR TRAFFICKING

Available at once in an NIH-supported project to study cellular dynamics when specific domains of a complex, multidomain protein are expressed. A major objective is to detect and characterize intrinsic mechanisms that regulate passage of the subject protein through the cell to the exterior. The experimental system is comprised of tailor-made transgenes, well-characterized host cell lines, and well-established analytical methods. Experience in cell and molecular biology is necessary. Please contact: **Marvin L. Tanzer, Department of Biostructure and Function, University of Connecticut Health Center, Farmington, CT 06030-3705. E-mail: tanzer@panda.uhc.edu.** *An Equal Opportunity Employer; Minorities/Females/Veterans/Persons With Disabilities.*

ACADEMIC POSITION ANNOUNCEMENTS UNIVERSITY OF CALIFORNIA, IRVINE School of Biological Sciences

Occasional openings for nonsenate academic **PROFESSIONAL RESEARCHERS, POSTGRADUATE RESEARCHERS, SPECIALISTS, and LECTURERS** in our Departments of Developmental and Cell Biology, Ecology and Evolutionary Biology, Molecular Biology and Biochemistry, and Neurobiology and Behavior are posted on our website: <http://www.bio.uci.edu/>. Please check back often, and please reference specific position number when applying.

University of California, Irvine, is an Equal Opportunity Employer committed to excellence through diversity.

IMMUNOLOGIST. Full-time faculty position for M.D. or Ph.D. at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the Infectious Diseases Unit (IDU) at the University of Rochester. Successful candidate will be expected to provide primary immunologic support for ongoing IDU activities and to develop an independent research program in a related area. The IDU contains three major NIH-supported programs: an HVTU (HIV Vaccine Trials Unit), an AIDS Clinical Trials Unit (ACTU), and a VTEU (Vaccine Treatment Evaluation Unit). Address inquiries to: **Richard C. Reichman, M.D., Infectious Diseases Unit, University of Rochester Medical Center, Box 689, 601 Elmwood Avenue, Rochester, NY 14642. FAX: 716-442-9328.** *The University of Rochester is an Equal Opportunity Employer.*

RESEARCH ASSOCIATE, molecular mechanism of prostate cancer. Position available for highly motivated individual at state medical university in the study of the regulation of expression of prostatic and phosphatase gene. Minimum requirement: Ph.D. in molecular biology. Three years of experience in research of cancers. \$27,000 per annum. Send résumé to: **Carolyn Flanigan, Alien Labor Specialist, Nebraska Job Service, P.O. Box 94600, Lincoln, NE 68509-4600.** Refer to Job Order No. 0272331.

POSITIONS OPEN

Corixa Corporation is a leading-edge biotechnology company based in Seattle, Washington, dedicated to the discovery of vaccines for the treatment of cancer and infectious diseases. We currently have two openings available at our Hamilton, Montana, location.

SCIENTIST 2000-46

We currently have a Scientist opening available for a person to develop protein and peptide parenteral formulation and lyophilization processes for vaccine use. Individual will also assist with the characterization of physical properties of antigens to support formulation development. Also responsible for developing analytical methods for the quantitation of active ingredients and excipients as well as the evaluation of stability of the same in parenteral formulations with an emphasis on protein analysis. Participate in product teams and technology transfer task forces as an expert in vaccine formation and analysis. Successful candidates will have a Ph.D. in pharmaceuticals and a minimum of five years of industry experience. Excellent oral and written communication skills and solid computer skills needed. Competence in statistical analysis and supervisory skills. Work involves safe use of hazardous and biohazardous materials.

ASSOCIATE SCIENTIST 2000-47

We currently have an opportunity for a scientist to facilitate pilot-scale production of recombinant protein antigens for early-phase clinical vaccine trials. The initial focus will be on the preparation of a recombinant leishmanial protein antigen. Successful candidates will have a minimum of two and one-half to five years of experience and a Ph.D. in biochemistry or a related field. Technical skills include experience with recombinant protein purification, process development, and pilot-level production. Also needed is experience with various analytical and preparative HPLC methods. Ability to apply and develop new methods for protein extraction and purification. Familiarity with Windows-based word processing, spreadsheet, and protein analysis software.

Corixa offers an attractive compensation and benefits package and a progressive work environment. Please apply by July 21, 2000, to: **Corixa Corporation, Attention: Job Number, 553 Old Corvallis Road, Hamilton, MT 59840. FAX: 406-363-6129; website: www.corixa.com.** *Equal Opportunity Employer.*

RESEARCH ASSOCIATE (FIVE OPENINGS) CENTER FOR INSECT SCIENCE UNIVERSITY OF ARIZONA

Postdoctoral Excellence in Research and Teaching (PERT) offers up to three years of support to outstanding candidates seeking advanced research training in insect science and preparation for the additional demands of an academic career. PERT trainees may select from among over 40 faculty research mentors representing a broad range of insect science disciplines: genetics, biochemistry, neurobiology, ecology, evolutionary biology, molecular/cellular biology, entomology, physiology, and behavior. Trainees will participate in a two-semester program in science pedagogy simultaneously with their research. Trainees will receive preparation in additional areas such as the job application process; grantsmanship; and how to balance research, teaching, and service during the tenure and promotion process. Funded through the NIH, the starting salary is \$29,000, with an annual allowance of \$5,000 for research and \$1,000 for travel. Each trainee will have exclusive use of a laptop computer. Additional information about the Center for Insect Science and the PERT program is available at website: <http://cis.arl.arizona.edu/index.html>. Applicants must have a Ph.D. and be U.S. citizens or permanent residents. To apply, please submit a detailed statement of research interests and career goals, curriculum vitae, and three letters of reference to: **PERT, Center for Insect Science, P.O. Box 210106, University of Arizona, Tucson, AZ 85721-0106.** Review of applications will begin July 3, 2000, and will continue until positions are filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action/Minorities/Women/Disabled/Veterans Employer.*

POSITIONS OPEN

RESEARCH ANALYST, HEALTH ECONOMICS AND OUTCOMES RESEARCH SmithKline Beecham Pharmaceuticals

SmithKline Beecham, an international producer of pharmaceuticals and consumer health care products, is seeking an individual with a background in pharmaceuticals and biostatistics to serve as Research Analyst, Economics and Outcomes Research, at its research and development facility in Collegeville, Pennsylvania. Principal duties include to perform predevelopment marketing analyses to determine the medical condition or disease state for which a new compound is best suited and to design and to carry out pharmacoeconomic analyses and studies to determine pharmaceutical cost effectiveness and the effects of pharmaceuticals on population-level health outcomes.

Minimum requirements are a Ph.D. in pharmaceuticals and M.S. in biostatistics and at least two years of experience in the job offered or two years of experience in the related occupation of biostatistical pharmaceutical research, which shall include experience in (1) designing, conducting, analyzing, and interpreting biostatistical pharmaceutical research studies; (2) carrying out regression and ANOVA analyses; and (3) applying and merging pharmaceuticals and statistics to carry out and evaluate pharmaceutical cost-effectiveness research. Must also be proficient in the use of UNIX and NT systems and in statistical programming, including SAS/BASE, SAS/MACRO, SAS/STAT, SAS/GRAPH, and SPSS.

SmithKline Beecham offers a competitive compensation/benefits package. For confidential consideration, please forward résumé and salary requirements to: **SmithKline Beecham Pharmaceuticals, Attention: Roberto Mera, Job Code: 00712K, Mail Code: FP0715, One Franklin Plaza, Philadelphia, PA 19101.** *We are an Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

RESEARCH ENTOMOLOGIST/ MICROBIOLOGIST

The U.S. Department of Agriculture (USDA), Research, Education, and Extension (REE), Agricultural Research Service (ARS), NPA, Bee Biology and Systematics Laboratory accepting applications for a permanent full-time **RESEARCH ENTOMOLOGIST/MICROBIOLOGIST** to provide expertise that contributes directly to the USDA Alternatives to Methyl Bromide initiative and the USDA Small Farms initiative. Specific research objectives: (1) Develop novel approaches for management of chalkbrood (*Ascosphaera* spp.) in nesting materials of commercial-scale populations of the alfalfa leafcutting bee, blue orchard bee, and other bee pollinator species; (2) develop chemical and/or biological control (e.g., sanitation) control methods for commercial-scale bee pollinator species; (3) research the etiology of bee diseases using culture media and diagnostic kits for isolation, identification, and enumeration of specific microorganisms. U.S. citizenship and a Ph.D. or equivalent are desired. Salary (\$50,139 to \$91,589) commensurate with experience. Position information contact: **Dr. W. P. Kemp; Telephone: 435-797-2525; e-mail: wkemp@cc.usu.edu; website: www.ars.usda.gov/afm/hrd/resjobs.** Application procedures information contact: **John Watterson; Telephone: 435-797-3071.** Mark applications ARS-X0W-0342; mail to: **USDA, ARS, HRD, WOB, 5601 Sunnyside Avenue, Beltsville, MD 20705-5106.** Postmark applications by August 7, 2000. *USDA is an Equal Opportunity Provider and Employer.*

POSTDOCTORAL POSITION available to study sensory nervous system development and function in mice (*Neuron* 21:325-334, 1998; *Science* 283:1180-1183, 1999). Cutting-edge transgenic and genomics technologies are available both at our newly designed facilities and through collaboration with the Novartis Institute for Functional Genomics. Please send application to: **Dr. Ardem Patapoutian, Assistant Professor, Department of Cell Biology, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037. E-mail: ardem@scripps.edu.**

**Tenure-Track Investigator
Interventional Magnetic Resonance Program
National Heart, Lung and Blood Institute (NHLBI)
National Institute of Health (NIH)**

The Interventional Magnetic Resonance Program is a new initiative in the Division of Intramural Research, NHLBI. It is anticipated that this program will facilitate the development of MR technology as a clinical tool for interventional procedures. An emphasis will be placed on clinical research and clinical protocols. The program will include collaborations with other investigators interested in applications of MRI, vascular biology and cardiology.

The Interventional Magnetic Resonance Program is located in the Clinical Center (Building 10) on the NIH Campus in Bethesda, Maryland. A state-of-the-art MRI scanner will be co-located with a bi-plane fluoroscopy system for the development of novel interventional procedures. Compensation will be commensurate with education and experience. The successful candidate may be eligible for other incentive programs such as the loan repayment program.

All applications should include the following: a current curriculum vitae and bibliography, a one-page summary of research accomplishments and research plans, and the names, addresses, and telephone numbers of five professional references. Completed applications should be sent to:

**Ms. Lisa Nadzam, National Heart, Lung and Blood Institute
National Institutes of Health, Building 10, Room 8C103
Bethesda, Maryland 20892**

Applications must be received no later than **July 15, 2000**. Requests for additional information may be obtained by contacting Dr. Robert Balaban, the Search Committee chairman, at the above address.

Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free workplace.

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NATIONAL INSTITUTES OF HEALTH

National Institute of Allergy and Infectious Diseases

Post-doctoral Fellow: Infectious Diseases Research in Virology

Position will be available in the Molecular Viral Biology Section of the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases. The research activities involve:

- (1) elucidation of the molecular events that occur during replication and transcription of the genome of mosquito-borne flaviviruses;
- (2) detailed definition of the processing of the viral polyprotein into individual functional viral proteins;
- (3) the use of new "rescue" systems for these viruses to examine basic questions of viral genetics, molecular virology, viral pathogenesis, and the molecular basis of attenuation;
- (4) production of interesting and informative viral mutants that might prove useful in immunization of humans; and
- (5) evaluation of the immunologic determinants of resistance to infection and illness caused by these flaviviruses.

This full-time research position offers a unique opportunity to work on investigations that range from basic molecular virology to applied vaccinology, and provides excellent laboratory-based experiences for post-doctoral scientists within seven years of receiving the Ph.D. and for M.D.s at all levels of training who plan a career in research in infectious diseases. The project will be supervised by Drs. Robert Chanock and Ching-Juh Lai. Starting salary ranges from \$29,000 to \$40,000 commensurate with experience/present salary. Applicants must be U.S. citizens or permanent residents. Please send curriculum vitae and three references to:

**Dr. Robert M. Chanock
Chief, Laboratory of Infectious Diseases, NIAID
Bldg. 7, Room 100
7 Center Drive, MSC 0720
Bethesda, MD 20892
FAX: (301) 496-8312**

E-mail: rchanock@niaid.nih.gov

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**National Heart, Lung & Blood Institute / NIH
Postdoctoral Research Fellow**

The Laboratory of Cardiac Energetics, National Heart, Lung & Blood Institute, NIH is offering a postdoctoral Research Fellow position in the laboratory of Dr. Robert S. Balaban for an individual who would investigate the cellular signaling pathways involved in the control of mitochondrial energy conversion and other functions.

Research will focus on the use of confocal microscopy on living isolated heart and skeletal muscle cells under conditions where active contraction and mechanical loads are applied. Studies will be conducted on control and genetically manipulated mice modified for numerous metabolic perturbations to help understand this critical cellular communication network. Multi-parameter studies on isolated mitochondrial/sub-mitochondrial particles and enzymes from these preparations will also be conducted to confirm molecular mechanisms. Applicants should have completed a Ph.D. or M.D. and be highly motivated individuals interested in joining a progressive research program.

Experience in confocal microscopy is desirable. Interested candidates should submit a statement of interest, curriculum vitae, bibliography, and a list of three references to Ms. Caroline Leake, Building 10, Room B1D416, 10 Center Drive MSC 1061, Bethesda, MD 20892-1061.

NIH is an Equal Opportunity Employer

**Staff Scientist Position
Image Analysis and Modeling NHLBI/NIH**

The Laboratory of Cardiac Energetics in the National Heart Lung & Blood Institute, NIH is searching for a Staff Scientist in biomedical imaging to pursue research in imaging and modeling.

The candidate should have a Ph.D. in biomedical engineering, computer science, or related disciplines. The candidate should have experience in imaging analysis, as well as MRI data acquisition and/or processing. Ideally, the candidate should have experience in performing MRI studies on the human heart. The focus of the research is the combination of novel MR imaging techniques with data analysis to provide quantitative evaluation of heart physiology in health and disease. The candidate will work closely with the cardiologist in the NHLBI cardiology branch to design and refine MRI approach to studying the heart. A dedicated 1.5T MR system will be available full-time for performing experiments, and state-of-the-art computer resources are also available. Contract appointment and salary are dependent on experience.

Applicants should send a CV, a brief statement of research interests, and three letters of reference to:

Ms. Caroline Leake
Building 10, Room B1D416
10 Center Drive MSC 1061
Bethesda, MD 20892-1061



Applications are due six weeks after posting of this announcement.

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The successful candidate must be a Pharm.D. with clinical experience. Excellent communication and writing skills and the ability to interact positively with industry personnel, investigators and study staff is required. Your responsibilities will include monitoring clinical trials, data analysis and writing interim and final study reports. Nationwide travel is required.

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Qualified applicants should send their resumes with salary history/requirements to:



Attention: Personnel
CN 5257

Princeton, New Jersey 08543

FAX: 609-799-4148

E-Mail: personnel@theradex.com

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New England Biolabs,
a world leader in the
manufacture and supply
of reagents for Molecular
and Cell Biology, has
the following position
available.



NEW ENGLAND
BioLabs Inc.

Postdoctoral Fellow

Postdoctoral position is available for individual with strong background in molecular biology and biochemistry. The projects include studies of molecular mechanisms of DNA recognition and catalysis by site-specific DNA endonucleases. Experience in recombinant DNA techniques is required. Experience in enzyme kinetics and protein structure is desirable.

Send resume and three references to:
Dr. Jurate Bitinaite.

New England Biolabs, Inc.
32 Tozer Road
Beverly, MA 01915

An Equal Opportunity Employer

Chair Department of Oral Biology College of Dentistry University of Florida

The College of Dentistry invites nominations and applications for a full time tenure-track Professor to assume the position of chairperson of a well-established teaching and research program in Oral Biology. The College of Dentistry seeks a dynamic, visionary leader with a strong record of teaching and external grant funding. The chairperson will oversee, coordinate, and provide leadership in research program management, grant proposal development, and instructional activities of the department, which consists of 14 full time faculty members. Candidates should be outstanding scholars with a Ph.D. degree in one or more of the main disciplines of the department (infectious diseases/microbiology, immunology, and cell biology) with a strong commitment to education at the professional and graduate levels. Candidates with expertise in neuroscience/pain are also encouraged to apply. It is anticipated that appropriate candidates will have an outstanding record of scholarship and extramural funding, including current support.

Candidates should submit the following application items: (1) curriculum vitae; (2) description of research experience; (3) research goals for the next five years; (4) list of primary teaching experience and interests; (5) detailed description of leadership experience; and (6) a list of at least five references. Review of applications will begin on September 18, 2000. The application deadline is March 31, 2001 with a starting date of July 1, 2001, or as soon as possible thereafter. Salary will be commensurate with qualifications and experience. Send applications and nominations to:

Dr. Kenneth J. Anusavice
Chair, Search Committee
University of Florida
Box 100446, Gainesville
Florida 32610-0446

The University of Florida is an EO/AA/EA employer. The selection process will be conducted under the provisions of "Florida's Government in the Sunshine and Public Records Laws."

PSYCHOGENICS

PsychoGenics, a dynamic biotechnology company located in Westchester County, N.Y., is expanding its research programs in order to pursue its goal of becoming the leader in animal model development and functional genomics in the central nervous system. PsychoGenics' goal is to integrate molecular biology and behavioral and neurobiological science in order to bring CNS drug discovery into the postgenomic era. PsychoGenics is seeking a

Vice President, Research.

■ The successful candidate will have broad knowledge of neurobiology with a particular emphasis on the integrated use of in vivo models and molecular biology in order to identify and validate targets for CNS drug discovery. The successful candidate will also possess the leadership and managerial skills required to direct the company's research programs. In addition to having overall direction of the company's research activities, the VP Research will play a key role in the ongoing design and development of PsychoGenics' corporate strategy.

■ PsychoGenics offers a highly competitive compensation and benefits package and an exciting and empowering environment that fosters scientific and personal development. An academic appointment at a major local university and medical center engaged in leading research in these areas is possible, given the right credentials. Interested candidates should send or email their CV along with the names of three references to:

Daniel Goodman, President and CEO,
PsychoGenics, 4 Skyline Drive, Hawthorne, NY 10532
email daniel.goodman@psychogenics.com.

The Reliance Group is India's largest business group with revenues of USD 10 billion and market capitalisation of USD 15 billion. The group has interests in oil and gas, petroleum refining, petrochemicals, polyester, plastics, textiles, infrastructure, financial services, power and telecommunication.

Reliance is currently pursuing opportunities in the field of biotechnology. As a part of this initiative, Reliance is in the process of establishing a biotechnology research center in Mumbai, India for research in the areas of industrial, agricultural and medical biotechnology.

Reliance invites young Scientists (Ph.Ds and Post Doctoral Fellows) with over three years of industrial/research experience looking for challenging opportunities in all areas of biotechnology. These positions are open to all nationals.

Compensation and benefits would be attractive and commensurate with qualifications and experience.

Interested individuals are requested to forward their resume to :

**Corporate HRD,
Reliance Industries Limited**
Brindavan, 4th Floor, Shree Ram Mills Compound,
Ganpatrao Kadam Marg, Worli, Mumbai - 400 013. INDIA.
E-mail : biotech_hrd@ril.com, Fax : (+91-22) 498 1677



Scientists in the field of Biotechnology

VICTORIA UNIVERSITY OF WELLINGTON NEW ZEALAND

Two Ecologists School of Biological Sciences

Two positions are available at the level of Lecturer/Senior Lecturer/Reader. Candidates will be required to have expertise in one of the following areas: Plant Ecology, Insect Ecology; or Marine Fish Biology. Candidates with strong research records, the ability to attract external funding and supervise graduate students, and demonstrated interests in team research will be favoured. The appointments can be made at a variety of academic levels. New Zealand follows the British academic classification, where a Reader is equivalent to a US Professor, Senior Lecturer is equivalent to a US Associate Professor, and a Lecturer to a US Assistant Professor. Applicants should be prepared to take up the appointment no later than 1 February 2001.

Further information about position can be obtained from Prof Charles Daugherty at the School of Biological Sciences, email Charles.Daugherty@vuw.ac.nz or phone 64 4 463 5572. Job descriptions, including method of application, are available through www.vuw.ac.nz, or from the HR Assistant, Faculty of Science, Victoria University of Wellington, PO Box 600, Wellington, New Zealand (tel: 64-4-463 5233, ext. 8071; fax: 64-4-463 5122; email: Science-appoint@vuw.ac.nz).

Applications close on 31 July 2000 or when position is filled, and should be sent to the address above. Please quote: Position Ref SA222.

Victoria University of Wellington is an EEO employer. A diverse workforce is highly desirable to meet these goals. We welcome applications from women and men from all cultures and backgrounds.

THE UNIVERSITY OF HONG KONG



The University of Hong Kong is one of the leading international comprehensive research universities in the Asia-Pacific region, with more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students (6,000 at postgraduate level). Research students come from more than 40 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

Research Assistant Professor in the Department of Medicine

Applications are invited for appointment as Research Assistant Professor in the Department of Medicine (Ref: RF-1999/2000-344), tenable from 1 August 2000. The appointment will initially be made on a two-year fixed-term basis, with a possibility of renewal, subject to satisfactory performance.

The Department of Medicine aims to produce doctors equipped to practise medicine of the highest standard and in the best interests of their patients and the community, and to inspire them to strive for and achieve academic excellence. Applicants should possess a PhD degree and be research active with a proven publication record. The appointee will be expected to undertake research in the development of DNA microarray technology. Relevant expertise on DNA chip technology and knowledge in molecular biology are preferred.

The appointment will normally be made on the first point of the four-point scale: HK\$516,720 - HK\$628,860 per annum (approx. US\$92,490 - US\$110,480; US dollar equivalents as at 5 June 2000). The appointment carries leave, medical and dental benefits, and an allowance for children's education in Hong Kong. A (taxable) financial subsidy fixed at HK\$7,000 per month (approx. US\$899) towards rented accommodation, subject to the Prevention of Double Housing Benefits Rules, may be offered. Further particulars and application forms can be obtained at <http://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: apptunit@reg.hku.hk). Closes 31 July 2000.

The University is an equal opportunity employer and enjoys a smoke-free environment

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

A position is immediately available to study the regulation of mammary gland tumorigenesis by growth factors and steroid hormones using transgenic/knockout models. Documented experience in murine genomics and carcinogenesis is desirable. Salaries are highly competitive and commensurate with experience. For immediate consideration, send curriculum vitae to: **Rakesh Kumar, Ph.D., Professor, The University of Texas M. D. Anderson Cancer Center-108, 1515 Holcombe Boulevard, Houston, TX 77030-4095. Telephone: 713-745-3558; FAX: 713-745-3792; e-mail: rkumar@mdanderson.org.**

The University of Texas M. D. Anderson Cancer Center is an Equal Employment Opportunity Employer and a smoke-free environment.

POSTDOCTORAL FELLOWSHIP

Postdoctoral position available immediately for NIH-funded investigation into toxicant-induced liver regeneration. Investigations focus on effect of diet/restriction on signal transduction, cytokines, growth factors, immediate early genes, and related molecular biology of cell division and tissue repair mechanisms in animal and cell systems. Proficiency in RT-PCR, immunoblotting, slot-blot analysis, and animal experimentation is essential. The position is ideally suited for a very recent Ph.D. in molecular biology, biochemistry, genetics, immunology, pharmacology, toxicology, or a closely related discipline with relevant experience. Individuals without relevant experience or with four or more years of experience after Ph.D. need not apply.

Send letter of interest and curriculum vitae by postal mail only to:

Dr. Harihara M. Mehendale
Department of Toxicology
Louisiana Institute of Toxicology
College of Pharmacy
The University of Louisiana
Monroe, LA 71209 U.S.A.

The University of Louisiana is an Equal Employment Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITION** available immediately to study phosphorylation and regulation of cocaine-sensitive dopamine transporters (*J. Biol. Chem.* **272**:15541). Position requires a Ph.D. in biochemistry or related field with experience in protein chemistry or molecular biology. Send statement of research interests, curriculum vitae, and names and telephone numbers of three references to: **Dr. Roxanne Vaughan, Department of Biochemistry and Molecular Biology, University of North Dakota School of Medicine and Health Sciences, Grand Forks, ND 58203-9037. E-mail: rvaughan@medicine.nodak.edu.** *University of North Dakota is an Equal Opportunity/Affirmative Action Institution.*

POSTDOCTORAL POSITION is available immediately to study interactions of angiogenic growth factors with matrix proteins. Candidates should have a recent Ph.D. in biochemistry or related field, and experience in cell and molecular biology will be helpful. Send curriculum vitae and names of three references to: **Charles W. Francis, M.D., Vascular Medicine Unit, P.O. Box 610, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



Two **POSTDOCTORAL POSITIONS** are available immediately to study the neurobiology of stress and anxiety in the laboratories of **D. L. Birkle** (Pharmacology and Toxicology) and **A. K. Salm** (Anatomy) at West Virginia University School of Medicine. One position entails behavioral and pharmacologic analysis of prenatally stressed rats. The other involves stereologic evaluation of limbic system components. Superior organizational and communication skills required. Experience with behavioral analysis, receptor mapping, and/or quantitative anatomy is helpful but not essential. Send curriculum vitae, a brief description of research interests/career goals, and the names of two references to: **Dr. A. K. Salm, Department of Anatomy, P.O. Box 9128, WVU-SOM, Morgantown, WV 26506-9128. E-mail: asalm@wvu.edu.** Applications will be accepted until the positions are filled. *Equal Employment Opportunity/Affirmative Action.*

ASSISTANT/ASSOCIATE PROFESSOR of environmental studies; probationary, tenure track (full-time). Appointment date: August 30, 2000, subject to availability of funds. Salary is based on qualifications and experience. Responsibilities: Develop and teach undergraduate and graduate courses in various areas of environmental engineering/management, advise undergraduate and graduate students, and develop an externally funded research program. Qualifications: Ph.D. in environmental engineering (or related field in engineering) and broad experience in waste management/environmental management fields, including environmental chemistry, remediation, risk assessment, and pollution prevention; evidence of strong commitment to teaching undergraduate and graduate students; strong research/publication record and potential for obtaining grants; and a willingness to work cooperatively on interdisciplinary teams. Doctorate required for tenure consideration. *All applicants must be able to lawfully accept employment in the United States at the time of an offer of employment.* Application information: Résumé, transcripts (official transcripts are required at time of appointment), statement of professional experience and goals; and names, addresses, and telephone numbers of five references. Apply to: **Dr. Ranae Womack, Dean, College of Social and Natural Sciences, Bemidji State University, 1500 Birchmont Drive N.E., Bemidji, MN 56601-2699. FAX: 218-755-2822; e-mail: rwomack@vax1.bemidji.msus.edu.** Postmarked deadline is July 17, 2000, or until filled. *Bemidji State University is an Equal Opportunity Educator and Employer.*

POSTDOCTORAL POSITIONS RESEARCH ASSOCIATES (JOB #994706) CANCER CENTER

POSTDOCTORAL FELLOW POSITIONS are available in the laboratory of **Mark A. Nelson, Ph.D.**, to study NIH-funded projects concerning the mechanisms of apoptotic signaling in human melanoma, CDK regulation of mitosis, or molecular genetic mechanisms involved in the etiology of melanoma. Experience in molecular biology, cell culture, and genetic manipulation of mice or somatic cells is preferred for these studies. Applicant must have a Ph.D., M.D./Ph.D., or M.D. degree or be currently enrolled in a graduate program and completing their degree. To apply, please submit current curriculum vitae and the names and addresses of three references to: **Mark A. Nelson, Ph.D., Molecular Oncology Laboratory, Arizona Cancer Center, 1515 North Campbell Avenue, Room 3963, Tucson, AZ 85724.** For more information, including review data, please see website: www.hr.arizona.edu (Job #994706). *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

POSITIONS OPEN

SENIOR SCIENTISTS/SCIENTISTS ANTEROGEN

"Revolutionary Cytotherapeutic Technology for the Heart"

Anterogen Co., Ltd. is a start-up biotechnology company dedicated to becoming the world leader in the development and commercialization of human cardiac cell/tissue transplantation therapies using nonembryonic multipotent stem cells. Anterogen is located in the center of the greater Boston scientific community and has assembled an internationally recognized team of scientific advisors and consultants.

The company is soliciting applications at the Scientist or Senior Scientist levels for its new and expanding research facilities. Successful individuals will be expected to establish an efficient, clinically relevant system for the high-yield isolation of functional cardiac cells from nonembryonic multipotent stem cells and their transplantation to wounded cardiac tissue. Candidates should have a Ph.D. and/or M.D. with a record of sustained scientific accomplishments plus excellent communication skills. Applicants are required to have a proven track record (including extensive postdoctoral experience for the Senior position) in (1) bone marrow mesenchymal cell-related research, (2) nonhematopoietic stem cell research, (3) primary cell culture and differentiation, or (4) cardiovascular development.

The positions are available immediately and include competitive compensation and benefits packages in addition to generous stock options. If you wish to apply for these positions, please submit your curriculum vitae or résumé to: **Anterogen, Attention: Human Resources, 20 Hampden Street, Roxbury, MA 02119. E-mail: hr2@anterogen.com.**

Saint Louis University, a Catholic Jesuit institution dedicated to education, research, and health care, is seeking applicants for two NIH-funded **POSTDOCTORAL POSITIONS** available immediately in the Department of Biochemistry and Molecular Biology at Saint Louis University School of Medicine to study the structure and function of coagulation proteases and their inhibitors. A Ph.D. degree in biology, biochemistry, or in a related field, with some background in routine molecular biology methods and/or enzyme kinetics, is desired. A competitive salary and fringe benefits are offered. Send curriculum vitae and the names of three references to: **Dr. Ray Rezaie, Department of Biochemistry and Molecular Biology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104 U.S.A. E-mail: rezaie@slu.edu; Telephone: 314-577-8130; FAX: 314-577-8156.** *Saint Louis University is an Affirmative Action/Equal Opportunity Employer and encourages nominations of and applications of women and minorities.*

POSTDOCTORAL POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

NIH-funded position available for Ph.D./M.D. to study genetic basis of pulmonary disease with focus on asthma on emphysema. Transgenic models of asthma and emphysema and mechanisms of lung injury and repair are the major focus of laboratory (see *J. Clin. Invest.* **100**:2501-2511, 1997; *J. Clin. Invest.* **98**:2845-2853, 1996; and *J. Clin. Invest.* **103**:779-778, 1999). Strong background in molecular biology and/or immunology is required. Please respond with curriculum vitae, brief cover letter, and the names and telephone numbers of three references to: **Jack A. Elias, M.D., Chief of Pulmonary and Critical Care Medicine, Section of Pulmonary and Critical Care Medicine, Yale University School of Medicine, Department of Internal Medicine, 333 Cedar Street, 105 LCI, P.O. Box 208057, New Haven, CT 06520-8057. Telephone: 203-785-4163; e-mail: jack.elias@yale.edu.**

GPCR Specialist

Our next breakthrough in GPCR could be down to you.

Sandwich, Kent

One of the world's top 3 pharmaceutical companies, we have a strong history of drug development and use the latest technology to aid our research effort. GPCR (G-protein coupled receptors) research is vital to our drug development strategy. In recognition of this, we're investing \$250 million in state-of-the-art reagents, assay technologies, and collaborations which will further enhance our class-leading position in this field. To make the best of our significant funding, we are looking for a creative and innovative GPCR specialist to strengthen our Receptor Pharmacology team.

You'll have received your recent PhD training in a world-class pharmacology laboratory with a proven track record in the mechanistic analysis of GPCR-ligand interactions. A motivated individual with a keen interest for drug discovery, you will use your knowledge and laboratory skills to aid the identification of novel drugs for GPCRs and elucidate their mode of action. As part of your role, you will be interacting with a wide range of scientists and your

ability to rapidly establish productive relationships with a variety of people will be essential.

This is probably the first opportunity you've had not merely to be part of a world-leading team, but also to be one of the people driving its work in expanding our knowledge of GPCRs and their modulators. You'll therefore need to be determined to make our name synonymous with the most progressive developments in the GPCR field. The strong team spirit in our company, as well as its massive resources, will ensure you're given whole-hearted support.

If you're ready for a more important role, please send your CV, quoting reference G070/2000/SCI to Joanna Short, Resourcing Adviser, Pfizer Central Research (IPC 077), Ramsgate Road, Sandwich, Kent CT13 9NJ. Closing date: 14th July 2000.



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Central Research

Life is our life's work



**THE UNIVERSITY
of LIVERPOOL**

**Department of Human Anatomy and Cell Biology
and
Department of Physiology**

**Senior Lecturer/Reader (2 Posts)
in Neurobiology and Cardiovascular Biology**

Initial salaries within the range £31,563 - £35,670 pa

Applications are invited from outstanding individuals with interests in neurobiology, or in cardiovascular biology, for two new positions at Senior Lecturer/Reader level. The successful applicants will have a track record of research success, will have demonstrated the capacity to lead their own research group, and will show high potential for future development. Applications will be particularly welcome from individuals who will enhance the already strong research focus of the departments in applying molecular and cellular approaches to the study of biological problems.

Post 1: Senior Lecturer/Reader in Neurobiology

This post will be held jointly in the Departments of Physiology (1996 RAE, 5*) and Human Anatomy and Cell Biology (1996 RAE, 5).
Quote Ref: A/730/S

Post 2: Senior Lecturer/Reader in Cardiovascular Biology

This post will be held in the Department of Human Anatomy and Cell Biology.
Quote Ref: A/731/S

Closing date for both posts: 21 July 2000

Informal enquiries to Professors P Cobbold on 0151 794 5493, email: p.h.cobbold@liv.ac.uk and Professor G.J Dockray on 0151 794 5324, email: g.j.dockray@liv.ac.uk

Further particulars and details of the application procedure may be requested from the Director of Personnel, The University of Liverpool, Liverpool L69 3BX on 0151 794 2210 (24 hr answerphone) or via email: jobs@liv.ac.uk Web site at <http://www.liv.ac.uk>

COMMITTED TO EQUAL OPPORTUNITIES

POSITIONS OPEN

NIH-funded **POSTDOCTORAL POSITIONS** are immediately available to study the structure and function of ion channel proteins. This collaborative project is being developed in Chicago (**S. Cukierman, Loyola Medical School**) and Toronto (**R. Pomes, Hospital for Sick Children**). Chemical synthesis of various covalently linked gramicidin channels, measurement of biophysical properties of these channels in lipid bilayers, and theoretical studies of ion permeation are the main areas of this project. Representative publications of our work are: *Biophys. J.* 78:1825, 2000; 77:2479, 1999; 71:19, 1996. Please send a letter or e-mail describing previous experience and professional goals and enclose curriculum vitae with the names of at least two references to: **Dr. Samuel Cukierman, Department of Physiology, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. E-mail addresses: scukier@luc.edu; pomes@sickkids.on.ca.**

Two years of salary and benefits available for a **POSTDOCTORAL FELLOW** to study the role of the CD44 transmembrane glycoprotein in malignant peripheral nerve sheath tumor growth and metastasis. Our laboratory, housed in the new Vontz Center for Molecular Studies, is focused on understanding how CD44 contributes to peripheral nerve development and disease. We are generating novel strategies to influence proteins that contribute to peripheral nerve tumorigenesis. Candidates should have a Ph.D. with experience in molecular and cellular biology and with handling mice. Please send curriculum vitae and the names and telephone numbers of three references to: **Larry Sherman, Vontz Center for Molecular Studies, Department of Cell Biology, Neurobiology, and Anatomy, 3125 Eden Avenue, Cincinnati, OH 45267-0521. FAX: 513-558-4454; e-mail: lawrence.sherman@uc.edu.**

POSTDOCTORAL POSITION MYCOBACTERIAL PATHOGENESIS California Pacific Medical Center A Sutter Health Affiliate

California Pacific Medical Center, cited by the *New York Times* as "one of the state's largest and most prestigious private hospitals," has a Postdoctoral position available August 1, 2000, for the study of mycobacterial pathogenesis. Requires background in cell biology (interaction between *M. avium* and intestinal epithelial cells) and molecular biology. Send curriculum vitae and three recommendation letters to: **Dr. Luiz Bermudez, Kuzell Institute, 2200 Webster Street, Suite 305, San Francisco, CA 94115. E-mail: luizb@cooper.cpmc.org.**

POSTDOCTORAL POSITION IN AIRWAY INFLAMMATION

A Postdoctoral position is available immediately to study cellular and molecular mechanisms of airway inflammation. Projects include (1) the role of CD40 in lung immunity and (2) the role of CFTR in CF-associated airway inflammation. Applicants should have a background in physiology, biochemistry, microbiology, or a related field. Send curriculum vitae and three letters of reference to: **L. M. Schwiebert, Ph.D., Department of Physiology and Biophysics, MCLM, Room 966, 1918 University Boulevard, Birmingham, AL 35294-0005. E-mail: lschwieb@uab.edu.**

POSTDOCTORAL RESEARCH FELLOW

Postdoctoral Research Fellow needed to join team investigating various aspects of pancreatic cancer biology, including growth factor pathways, apoptosis, cachexia, and experimental therapeutics. The successful candidate should have completed a Ph.D. in biochemistry or physiology or a related discipline. Experience in cell culture and molecular biology would be an advantage. Please send curriculum vitae with references to: **Thomas E. Adrian, Ph.D., F.R.C.Path, Department of Biomedical Sciences, Creighton University School of Medicine, 2500 California Plaza, Omaha, NE 68178. For more information, Telephone: 402-280-4065.**

POSITIONS OPEN

RNA MOLECULAR BIOLOGY

POSTDOCTORAL POSITIONS available to investigate mechanisms of posttranscriptional gene regulation. Projects are available in two areas: (1) control of mRNA degradation or (2) the structure and function of regulatory proteins that interact with RNA, such as HIV-1 Rev. Molecular biological, biochemical, and genetic strategies will be used. **Website: <http://saturn.med.nyu.edu/groups/BelascoLab/>.** Send curriculum vitae, a brief summary of research experience, and the names of two references to: **Dr. Joel Belasco, Skirball Institute, New York University School of Medicine, 540 First Avenue, New York, NY 10016.**

POSTDOCTORAL POSITION available in the biological use of scanning (atomic) force microscopy (SFM) at the University of Chicago. Immediate opening in a joint effort of the laboratories of **Morton Arnsdorf** (Department of Medicine) and **Susan Lindquist** (Howard Hughes Medical Institute, Department of Molecular Genetics and Cell Biology) applying the SFM and related techniques to the study of yeast prion dynamics and chaperone interactions (**website: http://molbio.uchicago.edu/Faculty/Susan_Lindquist.html**). Experience in using the SFM for imaging and force measurement is preferred, as is a background in structural biology, physical chemistry, protein conformational changes, and amyloid biochemistry. Send curriculum vitae and names of three references to: **Morton F. Arnsdorf, M.D., The University of Chicago, MC 6080, 5841 South Maryland, Chicago, IL 60637. FAX: 773-834-1884. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available to study the molecular chaperone activity of small heat shock proteins. Project involves biochemical analyses of *in vitro* systems, genetic dissection of structure/function relationships in a cyanobacterium, and collaborations with X-ray crystallographers and NMR spectroscopists. Candidate must have a Ph.D. in biochemistry or related field and excellent background in protein purification and physical characterization. Experience with microbial genetics and physiology a plus. For further information, see **website: <http://www.biochem.arizona.edu/vierling/>.** Send curriculum vitae and names of three references to: **Dr. Elizabeth Vierling, Department of Biochemistry, The University of Arizona, Tucson, AZ 85721. E-mail: vierling@u.arizona.edu.** Review of materials will begin June 28, 2000, and will continue until position is filled. *The University of Arizona is an Equal Opportunity Employer/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

POSTDOCTORAL POSITION LA JOLLA INSTITUTE FOR ALLERGY AND IMMUNOLOGY

Postdoctoral position available immediately to study the molecular regulation of T cell survival by the costimulatory molecule OX40. Applicants should have a Ph.D. and experience in signal transduction and T cell culture. Interested individuals should send their curriculum vitae and the names and addresses of three references to:

**Michael Croft, Ph.D.
Division of Immunochemistry
Attention: Human Resources/IC-2
La Jolla Institute for Allergy and Immunology
10355 Science Center Drive
San Diego, CA 92121
Telephone: 858-558-3500; FAX: 858-558-3597
E-mail: jcarolin@liai.org
Website: <http://www.liai.org>**

POSITIONS OPEN

TERRESTRIAL ENVIRONMENTAL TOXICOLOGY DEPARTMENT OF ENTOMOLOGY THE OHIO STATE UNIVERSITY

The Department of Entomology at the Ohio State University seeks candidates for a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of terrestrial environmental toxicology and/or environmental ecology and entomology. The candidate should have a strong background in ecology as well as toxicology. The successful candidate will be expected to develop a program in terrestrial ecotoxicology and attract external funding. Research foci of interest include environmental effects of contaminants, including pesticides, on terrestrial invertebrates and ecosystems; their fate, degradation pathways, and environmental availability, including transfer to aquatic systems; and identification and utilization of key organismal or ecosystems process indicators of environmental exposure to xenobiotics. It could also involve research into ecological and environmental issues associated with release of genetically modified organisms.

The candidate would be expected to integrate and coordinate his/her research program with some current departmental programs in soil ecology, aquatic ecotoxicology, pesticide application technology, molecular entomology, and chemical ecology as far as possible. There are abundant opportunities for interdisciplinary collaboration, especially in the environmental science graduate program and as a part of a Universitywide toxicology emphasis. The successful candidate will be expected to participate in the departmental teaching programs, including instruction in general biology teaching and a graduate course in his/her specialty.

The search committee will begin reviewing applications October 1, 2000, and continue until the position is filled. For full consideration, send curriculum vitae, statement of teaching and research interests and capabilities, and the names of five references to:

**Professor S. W. Fisher
Chair, Search Committee
The Ohio State University Department
of Entomology
1735 Neil Avenue
Columbus, OH 43210
E-mail: fisher.14@osu.edu**

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women and people of color are encouraged to apply.

POSTDOCTORAL POSITIONS

Position available to work on regulation of COX-2 in human adipocytes and leptin release. *Must be U.S. citizen or have permanent resident status.* Contact: **John Fain, Department of Biochemistry; e-mail: jfain@utmem.edu or Sulaiman Bahouth, Department of Pharmacology; e-mail: sbahouth@utmem.edu at University of Tennessee Memphis, TN 38163.**

Another position is available immediately to study the mechanism of regulation and the cellular function of RHO family GTPases with **Yi Zheng** in the Department of Biochemistry. **E-mail: yzheng@utmem.edu.** *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX, Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act.*

POSTDOCTORAL POSITION available immediately to explore functions of the ubiquitin proteolytic pathway in (1) response to oxidative stress (upon aging) or (2) regulation of cell division and proliferation. Ph.D. in biochemistry or molecular biology required. Experience a major asset. Level of appointment can be commensurate with experience. Knowledge of spoken and written English is a requirement. This is a well-established and productive group. Send résumé and transcript of graduate courses and grades, as well as three letters of reference, to: **Allen Taylor, Ph.D., Tufts University, 711 Washington Street, Boston, MA 02111. E-mail: Ataylor@hnrcc.tufts.edu.**

POSITIONS OPEN

RESEARCH ASSOCIATE

DUKE UNIVERSITY MEDICAL CENTER

NIH-supported **POSTDOCTORAL POSITION** available immediately to study the molecular basis for Factor V-membrane interactions and regulation of the prothrombinase complex in hemostasis and thrombosis (see website: <http://www.canctr.mc.duke.edu/Dr.WilliamKane>). The successful candidate must have published experience in biochemistry and molecular biology. Experience in plasmon resonance, molecular modeling, and protein isolation (FPLC) is also desired. Send curriculum vitae and names of three references to: **William H. Kane, M.D., Ph.D., Division of Hematology, DUMC-3656, Duke University Medical Center, Durham, NC 27710. E-mail: william.kane@duke.edu. Duke is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE

Postdoctoral positions available immediately in the area of pulmonary vascular biology to evaluate gene therapy approaches for pulmonary hypertension. The candidates should have experience in either vascular physiology or with virology and molecular genetics. They will interact with other members of the project in the Departments of Pharmacology, Physiology, Pediatrics, and the Gene Therapy Center. Please send curriculum vitae and research experience to: **Dr. Gary Visner, University of Florida, Department of Pediatrics, Box 100296, Gainesville, FL 32610. E-mail: visnaga@peds.ufl.edu. Equal Opportunity/Affirmative Action Institution.**

POSTDOCTORAL POSITION

Seeking Postdoctoral Fellow to join research team studying cell cycle control with emphasis on lung cancer. Projects involve studying the role of the p16 tumor suppressor gene in response to DNA damage (MCB 18:378). Additional work focuses on the effect of pharmacologic cyclin-dependent kinase inhibitors on lung cancer *in vitro* to generate preliminary data that will lead to clinical trials. Send curriculum vitae and names of three references to: **Dr. Geoffrey Shapiro, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. E-mail: geoffrey_shapiro@dfci.harvard.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in the Anticonvulsant Drug Development Program to study mechanisms of action of anticonvulsants using dual patch clamp recording in cultured neurons. Mechanisms underlying hyperexcitability and seizure generation will also be investigated using patch clamp techniques with DIC/infrared imaging in the entorhinal cortex slice. Candidates with neurophysiology experience should send curriculum vitae, statement of research interests, and names of three references to: **Karen S. Wilcox, Ph.D., University of Utah, Department of Pharmacology and Toxicology, 20 South 2030 East, Room 408, Salt Lake City, UT 84112.**

POSTDOCTORAL POSITION is available to study the interaction of toll-like receptors with iron transport proteins (Nramp1, Nramp2, and HFE) in macrophage-mediated resistance to mycobacterial diseases. Candidates must have a Ph.D. with expertise in immunology, cellular and molecular biology, and cell signaling pathways. Please send curriculum vitae and names of three references to: **Dr. Bruce S. Zwilling, Department of Microbiology, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210.**

POSTDOCTORAL POSITION in Boston is available immediately to study endothelial cell cycle regulation and angiogenesis. Candidates should have an M.D. or Ph.D. and a strong background in cellular and molecular biology. Please send curriculum vitae and three references to: **Douglas W. Losordo, M.D., Division of Cardiovascular Research, St. Elizabeth's Medical Center, Tufts University, 736 Cambridge Street, Boston, MA 02135. FAX: 617-789-5029.**

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AWARDS

THE LINUS PAULING INSTITUTE PRIZE FOR HEALTH RESEARCH Call for Nominations

The Linus Pauling Institute Prize for Health Research is a newly established prize sponsored by the Linus Pauling Institute (LPI) at Oregon State University (website: <http://osu.orst.edu/dept/lpi>). The Prize consists of \$50,000 and a medal and will be awarded biannually starting in 2001. The Linus Pauling Institute was established at Oregon State University in 1996 as a working memorial to Linus Pauling, an alumnus (1922) of OSU. The mission of the LPI is to determine the function and role of micronutrients, vitamins, and phytochemicals in promoting optimum health and preventing and treating disease. The purpose of the Prize is to encourage and recognize excellence in research relating to LPI's mission. The aim is to recognize scientists who have made innovative contributions to our knowledge and understanding of the role of diet in prevention and treatment of disease. Procedure: The nominator should submit a nomination letter, two supporting letters, and the candidate's curriculum vitae. The candidate's research accomplishments in light of the purpose of the prize should be amply described in the letters. The recipient must be present to accept the prize and present a paper at a conference titled "Diet and Optimum Health" organized by the LPI in Portland, Oregon, May 16-19, 2001. Nominations should be sent to: **The Linus Pauling Institute, Attention: Barbara McVicar, Oregon State University, 571 Weniger Hall, Corvallis, OR 97331-6512. Complete nomination materials must be received by October 1, 2000.**

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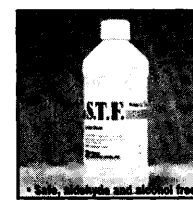
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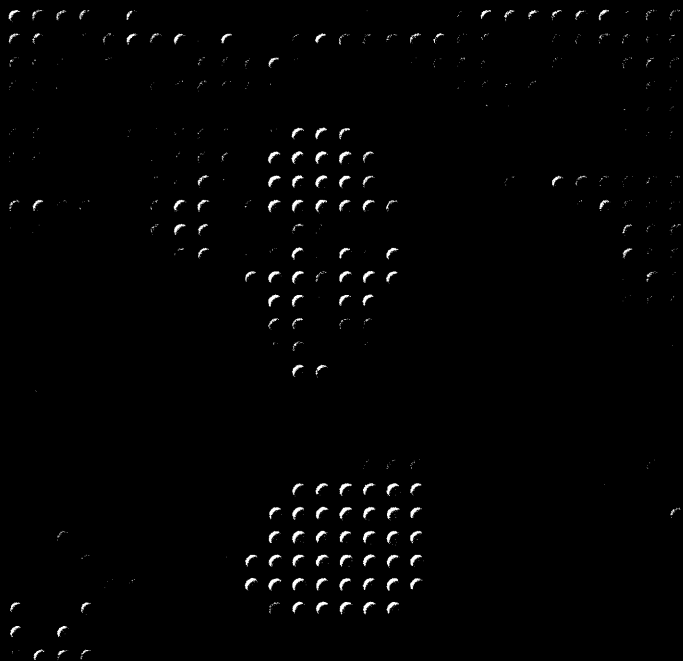
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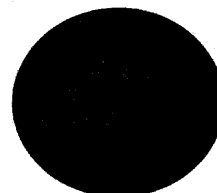
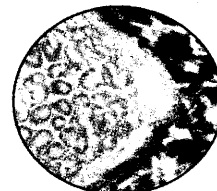


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