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### PRODUCTS



by moving red blood cells and provides a reading expressed in blood perfusion units. It features probes for invasive and noninvasive applications. **BIOPAC Systems.** For information call 805-685-0066 or circle 147 on the Reader Service Card.

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## T Cell Activation Kit

ActiCyte-TC is a system for isolation and activation of human peripheral blood T cells. Each kit contains a medium for rapid isolation of T cells, a reagent to remove residual contaminating erythrocytes, a medium for T cell activation via cell surface receptors, and a T cell basal medium for nonactivated cultures. The procedure requires no special equipment and does away with the need to buy a multitude of reagents to carry out an experiment. The kit is part of a complete T cell activation biology system, including kits for studying receptor expression and cytokine production and secretion. Applications include transplantation biology, AIDS research, cancer immunology, psychosocial immunology, and drug studies. **BioErgonomics.** For information call 800-350-6466 or circle 142 on the Reader Service Card.

maceutically diverse compounds with known drug or drug-like activity. These are well-characterized, high purity compounds that can be used to characterize orphan receptors, validate new assays, and help to define screening strategies. The compounds are organized according to pharmacological class, including adenosines/purinergics; adrenergics/histaminergics; cholinergics/ion channel modulators; dopaminergics; serotonergics; glutamatergics; and others. Each group is organized in 96-well racks containing 2 mg of each compound per tube. **Research Biochemicals International.** For information call 800-736-3690 or circle 144 on the Reader Service Card.

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## The R&D Department, Laboratoires SERONO S.A., Aubonne & Vevey, Switzerland

The Ares-Serono Group is a multinational organization engaged in developing and marketing pharmaceutical products, with Executive Headquarters in Geneva (Switzerland). With a number of recombinant products under development, Ares-Serono ranks among the world's leading companies active in the field of biotechnology, with subsidiaries and production facilities in more than 25 countries.

Our R&D Department is an active part of the Laboratoires Serono S.A. in Aubonne (Switzerland), employing over 450 people, which will move to our brand new production facility currently under construction in Corsier-sur-Vevey. We are looking for the following person to help us meet the challenges of the 21st Century:

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- To act as liaison with other R&D units within the Ares-Serono Group.

Proven managerial experience in a Biotechnology/Pharmaceutical environment is a must, as well as the ability to express both in English and French.

We offer first class employment conditions in a creative and high technology environment. To apply for this challenging position, please send your application with full career details to: **Beatrice Martin-Flatin, Human Resources Dept., Laboratoires Serono S.A., CH-1170 Aubonne, Switzerland.**



The Swiss Federal Institute of Technology in Lausanne (EPFL) invites applications for a newly created position as

### Full or Associate Professor in Theory or Communications Systems

The field is broadly defined within the theoretical foundations of communications and information systems. Possible topics include, but are not restricted to: information theory, communication theory, protocol specification/verification, formal languages, and performance analysis for communication/information systems. The successful candidate is expected to have an outstanding research record, and to be interested in teaching at both the undergraduate and graduate level in the areas of communication and information systems. He/she should be equally interested in fundamental science and phenomena as well as in technologies and their industrial applications. He/she is also expected to develop collaborations with industries having activities in related areas, as well as with other laboratories of the EPFL, of the Swiss Federal Institute of Technology Zurich (ETHZ), and with EURECOM.

The Communication Systems Division is one of the two priority areas of the EPFL. It has a specific undergraduate and graduate program with courses in Communication Systems both from the Computer Science and Electrical Engineering point of view.

EPFL is a top, internationally minded Technical University; the EPFL offers competitive salaries, substantial start-up packages, and excellent research and teaching facilities. Information about the EPFL and the Communication Systems Division can be obtained by consulting <http://www.epfl.ch/bienvenue.html> and <http://sscw.epfl.ch/>.

Starting dates: upon mutual agreement. *Applications from women are particularly welcome.* Deadline for applications: May 20, 1998.

For further information please contact by writing: **Professor J.-C. Badoux, President, Ecole polytechnique fédérale de Lausanne, CE-Ecublens, CH 1015 Lausanne, Suisse, or by fax no +41.21.693.70.84.**



# Focus on Careers: Switzerland

Michael Woods

**GENEVA** — The image of Switzerland as a scientific power may perturb anyone who still views the country in terms of precision instruments, banks, watches, chocolates, winter sports in the Alps and Juras, and a 700-year history of political neutrality.

But policy analysts tallying up the scientific wealth of nations consistently rank Switzerland among the world leaders in research output, impact, and value for money spent.

Switzerland's scientific prowess came into sharp focus last year, when Robert M. May published a ranking of the world's top 15 countries in scientific research. May, who is with England's Office of Science & Technology, did a country-by-country comparison of 8.4 million papers and 72 million citations from 1981–1994. In every measure, this small country with a population about equal to the city of London held its own with the world's largest economies. In two of May's measures of relative performance (papers and citations per person) the Swiss were No. 1 in the world, by a big margin.

Mergers (Ciba-Geigy and Sandoz to form Novartis), acquisitions (Roche Holding Ltd.'s purchase of Boehringer-Mannheim); fresh influxes of venture capital; and new start-up firms have stirred great excitement in the Swiss biopharmaceutical scene. Things could get more interesting with the outcome of the "Genschutzhinitiative," the national referendum on gene research.

For a spot check on the current situation, we visited with Manuel C. Peitsch, of Glaxo Wellcome Research here. Peitsch, a bioinformatician, has been in the thick of the action during the last few months.

Peitsch established a bioinformatics group at Glaxo Wellcome's Geneva Biomedical Research Institute in 1994, after a Ph.D. in immunochemistry from the University of Lausanne and a postdoc at the National Cancer Institute, Frederick, Maryland USA.

Glaxo Wellcome announced plans to close the institute last year and subsequently sold it to Ares-Serono. Peitsch's group, and other researchers doing transgenics and knockouts, were

retained by Glaxo Wellcome. They will form a new Geneva-based institute, Glaxo Wellcome Experimental Research. Peitsch also has duties as director of scientific computing for Glaxo Wellcome. One of the most striking changes in the Swiss biopharma scene is the debut of start-ups, according to Peitsch. "The idea of having these small companies appear is quite new in Switzerland," Peitsch said. He has been involved in one, Geneva Bioinformatics, or GeneBio, organized by several bioinformatics people from the University of Geneva.

Several factors probably will encourage similar ventures, Peitsch said. These include availability of venture capital, a government allocation for low-interest loans to encourage start-ups, and greater interest from Swiss academe.

Start-ups may become reliable sources of new biopharma jobs in Switzerland in the years ahead. Some of the hottest career fields, according to Peitsch, will be bioinformatics, combinatorial chemistry, and organic chemistry.

One uncertainty is the outcome of the Genschutzhinitiative, the gene protection initiative. If approved this spring, the constitutional amendment would ban genetic manipulation of animals and forbid release of any genetically altered organism into the environment.

"The ban surely would have an adverse impact on research at new start-ups and the major companies," said Peitsch. "On the other hand, it probably would help push other areas, such as bioinformatics, that would remain unaffected."

Peitsch believes voters will reject the initiative, recognizing the adverse economic side effects on Swiss industry and research.

What's the outlook for Swiss science? "Prospects for the pharmaceutical and biotechnology industry look very bright," Peitsch said. "There should be a healthy research climate and good career opportunities." ■

*Michael Woods writes frequently on the biotechnology and pharmaceutical industries.*

# Serono Pharmaceutical Research Institute S.A.



The Institute is an affiliate of the Ares-Serono Group which has its Executive Headquarters in Geneva and is a leading multinational engaged in research, development, and marketing of products in the biotechnology field. The Institute is a state-of-the-art centre of scientific excellence and its research is directed toward the discovery of novel molecular mechanisms that can be used as drug targets to treat serious diseases.

A challenging and exciting opportunity exists for a

## Head of Chemistry

We are looking for an experienced chemist with a proven track record of drug discovery to become the head of the chemistry department. The successful candidate will be responsible for recruiting and establishing a department initially of around 20 people. Working closely with our biology and lead discovery groups, the candidate will be responsible for the design and synthesis of novel pharmaceuticals. Reporting to the director of science and discovery, he/she will play a key role in the senior management team of the Institute.

The ideal candidate will be a Ph.D. holder and have extensive experience of the drug discovery process. Experience with diversity chemistry and the production of focused chemical libraries is essential, as is experience of the hits to leads and lead optimization process.

Further information can be obtained from (tel +41 22 706 99 30) or by e-mail to [tim.wells@serono.com](mailto:tim.wells@serono.com).

If you are interested, please send your detailed curriculum vitae with a list of publications and the names of three referees to the Personnel Department of the Institute.

## Serono Pharmaceutical Research Institute S.A.

14, chemin des Aulx  
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### The Swiss Federal Institute of Technology in Lausanne (EPFL) invites applications for two positions as Assistant Professor in Sustainable Development

The requirements for these limited-time positions (3 years, renewable once) are defined broadly and are intended for candidates having a proven high-quality research record and proposing an innovative research program, particularly with respect to methodology and design. The proposed program should stimulate new directions in one or more engineering fields in order to account for key aspects of sustainability (environmental, technological, economical, etc.). For example, research fields could include energy, material life-cycle management, building or land management. The new professor will be in charge of courses to engineers.

The quality of the research program as well as the scientific excellence, personality, multidisciplinary interests, industrial experience are determining factors for the award of these positions. Research projects must be of a high scientific level and should point to feasible applications. The new assistant professors will be attached to the research unit at the EPFL that is most closely associated with the research program. Capabilities to direct a research team and to initiate partnerships with industry and with other universities are expected. Applications from women are particularly welcome. Applications are also encouraged from people who fulfill the requirements of the Swiss program for ensuring the continuity of competent university faculty. Information about the EPFL can be obtained by consulting <http://www.epfl.ch>.

The deadline for the receipt of applications is: May 1, 1998.  
Starting date: as mutually convenient.

Interested candidates should request the application form by writing to:  
Présidence de l'École polytechnique fédérale de Lausanne,  
CE-Eubiens-1015 LAUSANNE, SUISSE.

### UNIVERSITE DE NEUCHÂTEL

### FACULTE DES SCIENCES

#### FACULTY POSITION

The Hydrogeology Center of the University of Neuchâtel (CHYN) provides advanced training in hydrogeology in Switzerland. It is pleased to announce the new position of:

#### Professor of Quantitative Hydrogeology

The candidate will be in charge of (1) teaching mainly postgraduate geologists and engineers and (2) conducting researchers, in the fields of:

- flow and transport modeling (mass, energy)  
in groundwater systems
- groundwater hydrodynamics
- applied geostatistics and stochastic methods in hydrogeology (optional)

Lectures may be held in English.

The candidate will work together with the groups of both the Hydrogeology Center (deep circulation and geothermal flow, hydrogeology of fissured rocks, tracer and colloid transport in porous media) and the Geological Institute (water-rock interaction, low-temperature geochemistry, tectonics). The University of Berne, Neuchâtel and Fribourg jointly cooperate in earth sciences teaching (BENEFRI association). The contribution of Neuchâtel to this group is hydrogeology. The new professor will work closely within this association.

Position starting: October 1998.

*The University of Neuchâtel is an Equal Opportunity Employer.*  
For additional information, directly contact: **Director, Hydrogeology Center, rue Emile-Argand 11, CH-2007 Neuchâtel** (e-mail: [francois.zwahlen@chyn.unine.ch](mailto:francois.zwahlen@chyn.unine.ch)/tel. +41 (0) 32 718-2689).

Applications should contain a CV and lists of publications, research projects, and references. It should be sent to

"Service de l'enseignement universitaire, Château, CH-2001 Neuchâtel, Switzerland" before March 31, 1998.



THE INSTITUTE OF CANCER RESEARCH  
(University of London)

## CHAIR OF PROTEIN CRYSTALLOGRAPHY

Applications are invited for this newly-established chair, to be held within the Chester Beatty Laboratories of the Institute of Cancer Research. The Chair provides a unique opportunity for a talented scientist to create a world class protein crystallography centre.

The Chair will be the principal focus of a major effort by the Institute in Protein Structural Biology. It will complement the existing strengths in cell, molecular and developmental biology in the Chester Beatty Laboratories (rated 5\* in the 1996 RAE round). Current senior faculty include Professors A Ashworth, M Greaves, C Marshall FRS, R A Weiss FRS and K Willison. Present interests of the Laboratories include signal transduction, gene regulation, protein folding, cellular growth control and developmental biology.

The Chester Beatty Laboratories are currently undergoing a major expansion, with an extensive building programme providing space for approximately 200 more staff. It will include the Cancer Research Campaign (CRC) Centre for Cell and Molecular Biology, the Leukaemia Research Fund Centre, and the new Breakthrough Toby Robins Breast Cancer Research Centre, and together with the CRC Centre for Cancer Therapeutics (situated on the Sutton, Surrey campus of the Institute), will provide outstanding opportunities for

structural biologists to develop collaborative projects. The Centre for Cancer Therapeutics (Director, Professor P Workman) has a major focus on target-based drug discovery.

The new Chair will complement the activities of the CRC Biomolecular Structure Unit (Director, Professor S Neidle), which has major interests in nucleic acid structure and recognition, and in molecular modelling and design. The Unit has excellent crystallographic and computing facilities for macromolecular structure determination, and it will largely move to the expanded Chester Beatty Laboratories. Substantial start-up resources and appointments can be made available to the new Chair, with the intent of creating an internationally important centre from the outset.

**The Chair will be tenable from 1st August 1998. Informal enquiries should be made to Professor Peter Garland at the Chester Beatty Laboratories, Institute of Cancer Research, Fulham Road, London SW3 6JB, tel: +44(0)171 352 8133, from whom further particulars can be obtained. Formal applications should be received at the Institute by Monday 9th March 1998.**



winning over cancer

### WORLD HEALTH ORGANIZATION INTERNATIONAL AGENCY FOR RESEARCH ON CANCER



#### POSTDOCTORAL RESEARCH FELLOW International Agency for Research on Cancer Lyon, France

A postdoctoral position is available to participate in the European Commission-sponsored project on the study of the role of p53 gene mutations in UV-induced human skin carcinogenesis (*PNAS* 91:360-364, 1994; *Cancer Epidem. Biom. Prev.* 6:433-438, 1997). Preference will be given to applicants with experience in molecular biology techniques. The position is initially for one year, with a possibility of extension for another two years. Applications, including CV, publications list, and names of at least two referees should be sent, before 15 March 1998, to:

**Dr. Hiroshi Yamasaki**  
Unit of Multistage Carcinogenesis  
International Agency for  
Research on Cancer  
150, cours Albert Thomas  
69372 Lyon Cedex 08-France  
Tel: (+33) 472 73 84 96  
Fax: (+33) 472 73 84 42  
E-mail: yamasaki@iarc.fr

### CARDIOGENE

#### Gentherapeutische Systeme

CARDIOGENE Gentherapeutische Systeme is a German biotechnology company focusing on the development of innovative gene therapeutic approaches to treat cardiovascular diseases. CARDIOGENE has a balanced portfolio of "near-clinical trial" and research-focused projects embedded in a professional organizational environment. To support its aggressive growth objectives, CARDIOGENE is looking for top performing scientists with an awareness/experience relating to the challenges of industrial R&D.

**A GRADUATE PEPTIDE CHEMIST/BIO-CHEMIST and a MOLECULAR BIOLOGIST** holding a Ph.D. and undertaken a first postdoctoral assignment is required for the design of new targeting vectors for gene therapy of cardiovascular diseases. Dedicated scientists with experience in protein and lipid chemistry, in cell culture work, and the molecular biology of the cardiovascular system are invited to apply immediately by sending their CV and the names, addresses, and telephone numbers of three references to **Dr. Michael Ruhl, CARDIOGENE AG, Max-Planck-Straße 15a, D-40699 Erkrath, Germany.** Salary commensurate to experience.

For further information please contact  
**Dr. Michael Ruhl or**  
**Prof. Dr. Jürgen Schrader**  
(Tel: ++49/211/20565-21  
Fax: ++49/211/20565-99  
E-mail: ruhl@herzkreis.uni-  
duesseldorf.de)

### THE CAVALIERI OTTOLENGHI INSTITUTE OF NEUROSCIENCE

Applications are solicited for a position of Scientific Director of a major new initiative in Torino, Italy, devoted to the study of mental illness through basic and applied neuroscience. Economical support is currently available for the establishment and maintenance of a Scientific Institute, and additional funds will be raised through public and private sources. The research focus is molecular and cellular neuroscience (neurodegeneration, developmental neurobiology, synaptic plasticity, signal transduction, neurogenetics). The director will interact with a University Task Force, and an International External Advisory Board, and will report directly to the President of the University of Torino.

Applicants should send a complete curriculum vitae including administrative and teaching experience to:

**Mrs. Roraima Cohen, Dept. of  
Medicine and Experimental Oncology,  
General Pathology Section, University  
of Torino, Italy, Corso Raffaello 30**  
E-mail address:  
giuseppe.poli@unito.it

To be assured full consideration,  
the application should be received  
by April 30, 1998.



**UNIVERSITY OF  
CAMBRIDGE**

### *The Sheild Professorship of Pharmacology*

The Board of Electors to the Sheild Professorship of Pharmacology invite applications for this Professorship which will become vacant from 1 October 1999 on the retirement of Professor A.W. Cuthbert, F.R.S. The appointment will be subject to the Statutes and Ordinances of the University.

The present pensionable stipend for a Professor is £41,288 a year.

Candidates for the Professorship should send a copy of their application, marked 'Confidential', together with the names of two referees, to the Secretary General of the Faculties, from whom further information regarding the Professorship is available, at the General Board Office, The Old Schools, Cambridge, CB2 1TT, so as to reach him not later than Monday, 30 March 1998. Information concerning the Department of Pharmacology may be obtained via <http://www.phar.cam.ac.uk>.

The University follows an equal opportunities policy.

#### **Institute of Biomedical and Life Sciences Division of Environmental & Evolutionary Biology**

### **REGIUS CHAIR OF ZOOLOGY**

Applications are invited for the Regius Chair of Zoology in the Institute of Biomedical and Life Sciences, Division of Environmental and Evolutionary Biology, vacated by the retirement of Professor Keith Vickerman FRS. The Division has a strong research profile in functional ecology, with particular strengths in ornithology, fish biology, ecophysiology and taxonomy and evolutionary biology, and excellent facilities for both field and laboratory based research. We are looking for an outstanding scientist with research interests in an area that complements and extends these strengths. While the successful candidate will be expected to contribute to all aspects of academic life in the University, this is primarily a research-based appointment.

Informal enquiries may be made to Professor F.A. Huntingford ([f.huntingford@bio.gla.ac.uk](mailto:f.huntingford@bio.gla.ac.uk)) or Professor P. Monaghan ([p.monaghan@bio.gla.ac.uk](mailto:p.monaghan@bio.gla.ac.uk)); and a summary of the research interests of staff is available at <http://www.gla.ac.uk/Acad/IBLS/DEEB>

Salary will be within the professorial range; and the post is tenable from 1st October 1998 or such other date as may be arranged.

Further particulars may be obtained from the Director of Personnel Services, University of Glasgow, Glasgow, G12 8QQ, (or email [julies@mis.gla.ac.uk](mailto:julies@mis.gla.ac.uk)) to whom applications (3 copies; 1 copy in the case of overseas applicants), giving the names and addresses of three referees, should be sent on or before Friday 27th March 1998. In reply please quote Ref. No. 059/98/SA. The University is committed to equality of opportunity in employment.

**Institute  
of Biomedical  
and Life Sciences**



**UNIVERSITY OF MANCHESTER  
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## **Nine Lectureships in Biological Sciences**

The School is the largest Biological Sciences Department in the UK, with 990 staff and graduate students and 1600 undergraduate FTEs. It has excellent research programmes spanning all areas of modern biology, supported by more than £55M of external income from all the major research councils, charities and industries.

A new 7000 m<sup>2</sup> BioSciences Incubator building is under construction on a link site to promote biotechnology and interaction with industry. The Graduate School includes over 450 PhD, MRes, and MSc students, there is a high quality annual intake of over 300 undergraduates to a broad range of Biological Sciences degrees and the School also delivers innovative teaching programmes in pre-clinical medicine and dentistry.

As part of a continuing development strategy, the School is now seeking to appoint outstanding individuals to nine new Lectureships/Senior Lectureships. Applicants working in the areas of **Animal Biology, Bioinformatics, Biotechnology, Genetics (including molecular, population and theoretical genetics), Integrative Biology, Molecular Pathogenicity, Neuroscience and Structural Biology** are particularly welcome but those with strong research records in other areas of biology are also encouraged to apply.

For general information about the School of Biological Sciences and application details, see our Website <http://www.biomed.man.ac.uk>

Starting salaries will normally be within the Lecturer B (£21,894-£27,985 p.a.) scale but appointment will be considered at the Senior Lecturer/Reader (£29,380-£33,202 p.a.) level for appropriately qualified candidates.

A full information pack (quote ref: 94/98) is available from: The Director of Personnel, University of Manchester, Oxford Road, Manchester M13 9PL, UK. Tel: +044 (0)161 275 2028, fax: +044 (0)161 275 2221, minicom (for the hearing impaired) +044 (0)161 275 7889, email: [personnel@man.ac.uk](mailto:personnel@man.ac.uk)

Applications/cv's (8 copies) should be submitted by the 6th March 1998.



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## Pharmacokineticist Bioanalyst

We wish to appoint a pharmacokineticist bioanalyst to manage projects in collaboration with the research and development teams working in our Institute and at our research centres in Ann Arbor (USA) and Cambridge (UK).

Applicants should have a PhD and 8-10 years experience in pharmacokinetics. They should also have extensive knowledge of discovery, PK/PD relations and analysis (HPLC and mass spectrometry). The selected candidate will possess excellent communication skills and maintain a close relationship with clients. Fluent English is essential.

For consideration, please write or fax complete CV (resume & references), quoting reference 13/02N PB, to Michèle Dorey, Institut de Recherche Jouveinal, 3-9 rue de la Loge, F-94265 Fresnes cedex France. Fax: (33.1) 40 96 75 97.

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## THE UNIVERSITY OF GRONINGEN THE NETHERLANDS

The Faculty of Natural Sciences and Mathematics of the University of Groningen, The Netherlands, invites applicants for the position of

### Full Professor Engineering Polymer Physics

(vacancy number 980023)

at the Laboratory of Polymer Chemistry.

The University of Groningen is seeking candidates with the ability and desire to establish a strong research program on the relation between the molecular structure, the morphology at mesoscopic level, and the material properties of polymers. The candidate should be internationally recognized. He/she should have the ability to direct a research group and to teach undergraduate and advanced courses in the physics and material properties of polymers. The teaching of stimulating and inspiring courses is an essential part of the position and a professor may, if necessary, be asked to attend relevant didactic courses.

It is the intention that the research program will become part of the "Dutch Polymer Institute" and will contribute to the thrust area "Polymer Properties".

The Laboratory of Polymer Chemistry participates in the research school "Materials Science Center" and "Polymers PTN" and covers groups that focus on physical chemistry of polymers, on functional materials, chemistry of surfaces and interfaces, and synthetic polymer chemistry.

Further information can be obtained from Prof. G. ten Brinke, chairman of the Search Committee, phone +31 50 3634509 or 3634510, e-mail address <brinke@chem.rug.nl>.

The closing date for applications will be March 18, 1998. Applications in the form of a letter, enclosing a curriculum vitae, list of publications, photocopies of relevant certificates, an outline of research interests, and names of three referees should be sent to the Head of Personnel Department, University of Groningen, P.O. Box 72, 9700 AB Groningen, The Netherlands. Those who wish to nominate a possible candidate are also invited to respond.

## Focus on Careers: Germany 3 April Issue

This new series of recruitment advertising supplements takes readers into leading pharmaceutical and biotechnology organizations to explore new research and important trends. Each supplement focuses on a different country.

**Ad Booking Deadline:**  
17 March 1998

**Contact:**  
Deborah Cummings  
Telephone: +44 (0) 1223 302067;  
Fax: +44 (0) 1223 576208; E-mail:  
European\_ads@science-int.co.uk

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# POSITION ANNOUNCEMENTS

## General:

The International Livestock Research Institute (ILRI), founded in 1994, incorporates the resources of the former International Laboratory for Research on Animal Diseases (ILRAD, Kenya) and the International Livestock Centre for Africa (ILCA, Ethiopia). ILRI, a nonprofit research institute, is sponsored by the Consultative Group on International Agricultural Research (CGIAR). ILRI has a global mandate for research to enhance the role of livestock in sustainable agricultural production systems in Africa, Asia, and the Latin American-Caribbean region.

ILRI's major programmes are Biosciences, Sustainable Production Systems, and Strengthening National Partnerships. A priority area of research in Biosciences addresses the genetics of disease resistance.

ILRI employs approximately 80 internationally recruited scientists, 20 postdoctoral associates, and 800 programme support staff based in the institute's two campuses in Nairobi, Kenya and Addis Ababa, Ethiopia and at field sites in Niger, Nigeria, Burkina Faso, India, Colombia, and Peru.

ILRI is recruiting for the following positions:

## 1) DIRECTOR FOR INSTITUTIONAL PLANNING

REF DIP/97:

ILRI is seeking a highly motivated individual to serve as the Director for Institutional Planning. This senior management position provides excellent leadership opportunities in a development-oriented, science-based international research organisation. The Director for Institutional Planning coordinates institutional priority setting, planning, resources allocation, and evaluation for ILRI's research and research-related programmes. Additional responsibilities include preparation of annual plans and funding requests and other institutional plans, and the coordination of internal and external programme and management reviews.

The Director for Institutional Planning serves with the programme directors, the Director for External Relations, and the Director of Administration on the Institute Management Committee, which is chaired by the Director General. He/she will be based in Nairobi and will report to the Director-General.

The successful candidate will have strong analytic skills; five or more years experience with agricultural research in developing countries; Ph.D. or equivalent in agricultural sciences; and excellent writing skills in English. Preference will be given to candidates who have demonstrated experience with ex-ante impact assessment methodologies for research priority setting and resource allocation, experience in CGIAR or other international agricultural organisations within the past five years, and the ability to communicate effectively in languages in addition to English.

## 2) LIVESTOCK GENETICIST — PROJECT COORDINATOR, DEVELOPMENT OF DISEASE-RESISTANT LIVESTOCK

REF PCDL/1/98:

ILRI is recruiting a Project Coordinator to lead research for the Development of Disease-Resistant Livestock. This is a senior leadership position in the Institute, based in Nairobi and reporting to the Biosciences Programme Director. This major research area currently includes two subprojects on the genetics of resistance to trypanosomiasis in cattle and the genetics of resistance to helminths in small ruminants. Current research involves five Ph.D. scientists, three graduate students, and nine technicians, plus visiting scientists on assignments of 10 to 12 months. The laboratory, small and large animal facilities, and other research infrastructure are well established and state-of-the-science equipped. The Project Coordinator is responsible for managing scientists, support staff, and experimental resources and plays a lead role in proposal development and fund raising. Development and coordination of collaborative projects with advanced research institutes outside Africa will be an important component of the work.

A Ph.D. degree or equivalent, with appropriate specialisation in animal molecular and/or quantitative genetics, and an extensive publication record are required. Candidates are expected to have more than 5 years relevant research and management experience. Good communication and interpersonal skills, an ability to perform in a multidisciplinary and multicultural research environment, and fluency in spoken and written English are requirements. The successful candidate will have experience in livestock genetics research and a strong interest in the genetics of disease resistance. Screening of applications for the Livestock Geneticist — Project Coordinator, Development of Disease-Resistant Livestock will begin on 3 March 1998 and will continue until the post is filled.

## Conditions:

The contracts for both positions will be for an initial three-year term with the possibility of extension. Salary, dependent on experience, will be paid in U.S. dollars. ILRI provides excellent benefits including employer-paid medical, life, and disability insurance and retirement benefits. Relocation, housing, annual leave, travel, and education allowances are also provided. Either on-site furnished accommodation (if available) or an allowance for off-site accommodation is provided.

## Applications:

Applicants should send a cover letter, curriculum vitae, and the names and addresses (including telephone, fax, and e-mail) of three referees to the **Human Resources Manager, ILRI, P.O. Box 30709, Nairobi, Kenya; Telephone: 254-2-630743; Fax: 254-2-631499; e-mail: ILRI-KENYA@cgnnet.com**. The name and reference number of the position for which the application is made should be clearly identified.

*ILRI is an Equal Opportunity Employer. Applications from female candidates are particularly encouraged.*



## ACADEMIC PAEDIATRIC CLINICAL GENETICIST

### DIVISION OF CLINICAL GENETICS/METABOLICS

The Hospital for Sick Children is a health care, teaching and research centre dedicated exclusively to children; affiliated with the University of Toronto. A world renowned facility, we currently have a new faculty position available for an academic physician whose expertise in research and clinical care relates to paediatric genetics. A research interest in the genetic predisposition to cancer and a demonstrated ability to promote bench-to-bedside in an academic health sciences centre is desired. The successful applicant for this role will be appointed at the University of Toronto at an academic level appropriate to their qualifications.

The Division of Clinical Genetics/Metabolics has a long tradition of excellence in clinical care, education and innovative research. The Division includes a Fellowship Training Program which is fully accredited by the Royal College of Physicians and Surgeons of Canada. Independent and collaborative clinical and basic science research is performed by Division members. Further information is available on the Departmental web site at [www.utoronto.ca/paedadmin/paedadm2.htm](http://www.utoronto.ca/paedadmin/paedadm2.htm) as well as on other linked web sites.

Interested individuals are invited to submit a letter of application, a curriculum vitae, and the names and addresses of three referees, by April 30, 1998, to: **Dr. Hugh O'Broovich, Chair of Paediatrics, Department of Paediatrics, University of Toronto, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8. Tel: (416) 813-6122, Fax: (416) 813-7479.** *The University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed firstly to Canadian citizens and permanent residents.*



THE HOSPITAL  
FOR SICK CHILDREN



University of Toronto

## The University of Chicago

The Department of Pharmacological and Physiological Sciences, under the forthcoming chairmanship of **Sangram S. Sisodia, Ph.D.**, will be making a significant commitment to the development of outstanding programs in cellular and molecular neurobiology and invites applications for a **TENURE-TRACK POSITION** in Neurobiology at the Assistant or Associate Professor level. The department is composed of 24 primary and 10 secondary faculty members whose research interests cover the areas of neurobiology of disease, developmental neurobiology, neuropharmacology, membrane receptors, signal transduction and second messenger mechanisms, membrane transport, structure and function of ion channels, vestibular and systems physiology, cytoskeleton, secretory pathways, and cell growth regulation. Although applications in all areas of neurobiology are welcomed, we are particularly interested in candidates working in: developmental neurobiology; neuronal vesicular trafficking; molecular determinants of neuronal plasticity; neuron-glia/neuron-muscle interactions; trophic/cytokine signaling mechanisms; and transgenic/knockout models of neurodegeneration and neurodegenerative diseases. The successful candidate will be required to teach in appropriate graduate and medical school courses. *From the time of its original charter, the principle of the University of Chicago has been to appoint scholars without regard to race, color, religion, sex, or national origin.* Applicants should provide a brief statement of research interests and plans, curriculum vitae and bibliography, and the names of three individuals who are willing to write letters of recommendation to:

**Chairman, Neurobiology Search Committee**  
The Department of Pharmacological and  
Physiological Sciences  
The University of Chicago  
947 E. 58th Street  
Chicago, IL 60637

## GLOBAL OPPORTUNITIES

# Logan Research Fellowships

Applications are invited, from suitably qualified women and men, for five Logan Research Fellowships for 1998.

Monash University, located on six campuses in the State of Victoria, is among the top research institutions in Australia with one of the highest records of published research in recent years.

To build on its research reputation and to mark the retirement in 1996 of Vice-Chancellor, Professor Mal Logan, Monash University established the Logan Fellowship scheme to attract the world's best researchers in any field.

The terms and conditions of appointment compare very favourably with other schemes at this level. Depending on experience, the initial appointment salary is based on research fellow level B (A\$46,269 – A\$51,113) with the opportunity to advance

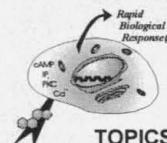
to level C (from A\$52,726). In addition to the salary, Fellows are granted A\$5,000 – A\$20,000 per annum depending on the needs of the research. Applicants should have two to six years of postdoctoral research experience. Initial appointment is for three years, extendable to six years, commencing on 1 September 1998.

Closing date for applications is Thursday, 30 April 1998. For guidelines, conditions of appointment, and application and referees report forms, contact the Research Grants and Ethics Branch website <http://www.monash.edu.au/resgrant/loganfs/>  
Inquiries: email: [christina.perrett@adm.monash.edu.au](mailto:christina.perrett@adm.monash.edu.au)  
fax: +61 3 9905 3831;  
telephone: +61 3 9905 9016.



## MEETING

### First International Meeting on RAPID RESPONSES TO STEROID HORMONES



September 18-20, 1998  
Mannheim, Germany

#### TOPICS: Rapid Action of:

- **Aldosterone** (B.J. Harvey, Ireland, H. Oberleithner, Germany, M. Wehling, Germany)
- **Estrogens** (R.L. Moss, USA, P.W. Shaul, USA, C.S. Watson, USA)
- **Glucocorticoids** (B. Gametchu, USA, F.L. Moore, USA, W.R. Rosner, USA)
- **Progesterone** (E. Baldi, Italy, P.F. Blackmore, USA, C. Foresta, Italy)
- **1,25(OH)<sub>2</sub>-Vitamin D<sub>3</sub>** (B.D. Boyan, USA, M. Lieberherr, France, A.W. Norman, USA, M.D. Sitrin, USA)
- **Steroids in the Brain** (E-E. Baulieu, France, J.M.H. French-Mullen, USA, M.J. Kelly, USA)

Currently there are 23 Invited Speakers on these topics with two poster sessions.

#### Organizers:

Dr. Anthony W. Norman  
(Univ. of California, Riverside)  
Tel: 1-909-787-4777; Fax: 1-909-787-4784  
Dr. Martin Wehling  
(Univ. of Heidelberg, Mannheim)

#### Meeting Information and Registration:

Conference Office: Dr. E. Falkenstein,  
Institute of Clinical Pharmacology, Klinikum  
Mannheim, Theodor-Kutzer Ufer 1-3,  
D-68167 Mannheim, Germany  
Tel: +49-0621-383-2716; Fax: +49-0621-383-2024

**Jack Clark Chair in Parkinson's  
Disease Research  
Centre for Research in  
Neurodegenerative Diseases  
University of Toronto**

Applications are invited for this Endowed Research Chair from experienced investigators (M.D. or Ph.D.) in the fields of biochemistry, molecular biology, cell biology, invertebrate or vertebrate model systems, neuropharmacology, gene therapy, neural transplantation, or other fields whose research can be applied to investigation of the pathobiology and treatment of Parkinson's disease. Qualified candidates will have an established record of scientific excellence and productivity, as well as a proven ability to lead a scientific research team that will interact with the existing research teams at the Centre for Research in Neurodegenerative Diseases working on other neurodegenerative diseases, including Alzheimer's disease. *In accordance with its employment equity policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, Aboriginal people, and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.* Closing date for applications is June 30, 1998. Letters of application, including a curriculum vitae, should be addressed to:

**Dr. P. H. St George-Hyslop, Director  
Centre for Research in  
Neurodegenerative Diseases  
University of Toronto  
6 Queen's Park Crescent West  
Toronto, Ontario M5S 3H2 Canada**



**THE  
OHIO STATE  
UNIVERSITY**

Two tenure-track positions are available in the interdisciplinary Plant Molecular Biology/Biotechnology Group (PMBB). It is anticipated that appointments will be made in the Departments of Plant Biology and Horticulture and Crop Sciences, although other departmental affiliations are possible. These positions are part of the campus-wide Molecular Life Sciences Initiative, and include competitive salaries and start-up funds, and access to excellent research facilities. The PMBB Group includes over twenty faculty with research interests spanning molecular mechanisms of plant gene expression, plant cell and developmental biology, plant biochemistry, plant-microbe interactions, and the application of basic knowledge for crop improvement. The successful applicants will be expected to develop competitive research programs that use modern molecular methods to investigate significant questions in any area of basic plant biology or plant-microbe interactions, and to participate in graduate and undergraduate teaching. Applicants must have a Ph.D. and postdoctoral experience. Interested candidates should forward a curriculum vitae including a summary of research interests and teaching philosophy, and the names of three references to: **Dr. David M. Bisaro, Chair, PMBB Search Committee, Plant Biotechnology Center, The Ohio State University, 1060 Carmack Road, Columbus, OH 43210.**

Review of applications will begin immediately, and will continue until the positions are filled. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

# Discover a world of opportunity

At SmithKline Beecham -- R & D individuals are challenged. Ideas flow. Creativity abounds. The result -- a powerhouse of discovery comprised of some of the most gifted scientists in the world. We are among the world leaders in Research and Development and we continue to break new ground in the development of innovative products. Through the continuing efforts of more than 4,000 dedicated R&D scientists and support personnel, we continue to excel beyond all expectations. We have several opportunities for individuals with the same high standards and visions shared by all our employees.

## Senior Mass Spectrometrists

The Research Mass Spectrometry Group in the Department of Physical and Structural Chemistry has an immediate opening for an individual skilled in biological mass spectrometry (MS). The successful candidate will join a team of scientists using state-of-the-art MS (gTOF, MALDI, nano-ESMS, uLCMS, FTMS) together with the full range of chemical, biochemical, chromatographic, and electrophoretic techniques for the analysis of naturally isolated peptides and proteins, recombinant proteins, RNA and DNA, and non-routine synthetic molecules. The qualified candidate is expected to implement or develop new separation and MS techniques relevant to current or anticipated research needs, and to initiate collaborations with research chemistry and biology departments in areas such as enzyme mechanism studies, structural analysis of protein modifications, ligand-receptor interaction, and new protein or protein complex characterization. Duties also include reporting and presenting the results to chemists and biologists, and for presentation and publication of the research.

Qualified candidates will possess a PhD in Chemistry or Biochemistry with at least 4 years of relevant mass spectrometry experience. Hands-on experience with HPLC-MS and/or CE-MS is required, as is experience with micro-sample preparation for MS analysis. Preference will be given to candidates with relevant postdoctoral training in the use of MS to address questions in structural biology, and to those who have demonstrated strong computer hardware and software skills. **Refer to Job Code H70198.**

## Investigator

The department of Molecular and Cellular Immunology seeks to hire an immunologist with expertise in peripheral tolerance mechanisms and regulation of auto-immune disease processes.

The successful candidate will have a PhD (or equivalent experience) in Immunology or a related discipline and 2 or more years' post-doctoral experience in cellular and molecular immunology techniques. Additionally, the selected individual will have a strong record of publications in immunology; demonstrated skills for presentation; good computer skills with an ability to learn new software; and good interpersonal skills which will facilitate effective team research. Experience with *in vivo* models is highly desirable. **Refer to Job Code D70692.**

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package as well as a stimulating work environment. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code (select one), P.O. Box 2646, Bala Cynwyd, PA 19004. **Indicating Job Code is essential.** We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits.

# TOXICOLOGIST

Rhône-Poulenc Ag Company operates in a dynamic environment. Our success depends on our ability to attract dynamic, creative professionals who are eager to meet challenges head on. We have an immediate need for an experienced Toxicologist to provide technical expertise and program management for U.S. Business Operations.

The essential functions are as follows:

- Represent Rhône-Poulenc before regulatory agencies and at scientific meetings
- Make recommendations and presentations to business management
- Assess potential for development of new chemicals
- Provide counsel and technical expertise on the toxicology dossier
- Design, monitor and interpret studies
- Assemble, prepare, and analyze data on toxicology and human health risk assessments.

This position requires a Ph.D. or doctorate in Toxicology with 3 to 5 years' experience in toxicology and at least 3 years in pesticide regulatory toxicology. A solid understanding of agriculture and the use of agrochemical products is essential along with the capacity to work autonomously and manage scientific projects. Excellent interpersonal and communication skills with the ability to convey technical concepts and information to a non-technical audience are required.

We offer a competitive compensation and benefits package. If you meet the above requirements and are seeking a challenging opportunity to contribute to a dynamic team, please send your resume and salary history in confidence to: Employment Coordinator (T), Rhône-Poulenc Ag Company, P.O. Box 12014, RTP, NC 27709.



Equal Opportunity Employer. Minorities and women are encouraged to apply. Rhone-Poulenc is an Equal Opportunity Employer.

## TRAINING GRANT POSITIONS

The Blood Center, an internationally recognized leader in molecular hematology, transplantation immunology, and transfusion medicine research, is seeking outstanding candidates to fill postdoctoral positions at The Blood Research Institute. These positions will be funded by an NIH Training Grant. Therefore, *qualified applicants must be U.S. citizens or permanent residents*, and cannot have received more than two years of previous support NIH Training Grant.

Located adjacent to the Medical College of Wisconsin, The Blood Research Institute provides state-of-the-art facilities, and offers an excellent environment for scientific interaction and interdisciplinary collaboration. Opportunities are periodically available with Blood Center scientists in the following areas:

**Richard H. Aster, M.D.**—Pathogenesis of drug-induced blood dyscrasias.

**David D. Eckels, Ph.D.**—Immunobiology of hepatitis C virus.

**Jack Gorski, Ph.D.**—Structure/function analysis of HLA-DR; T cell repertoires.

**Robert R. Montgomery, M.D.**—Molecular and cellular biology of von Willebrand factor.

**Peter J. Newman, Ph.D.**—Cell adhesion and signaling in vascular cells.

**Peter J. Sims, M.D., Ph.D.**—Immune rejection and dysfunction of platelets and endothelium.

**Therese Wiedmer, Ph.D.**—Regulation of membrane phospholipid asymmetry.

**Hartmut Weiler, Ph.D.**—Vascular biology/Thrombosis.

Applicants should send curriculum vitae, a brief description of current research, and the names and telephone numbers of three references to:



**Director of Blood Research  
Blood Research Institute  
The Blood Center  
P.O. Box 2178  
Milwaukee, WI 53202-2178**

*Affirmative Action/Equal Opportunity Employer*

## Research

**Alexion Pharmaceuticals, Inc. is an innovative and dynamic biopharmaceutical company engaged in the discovery, development, and commercialization of novel immunotherapeutics targeting inflammation, autoimmune disorders, and transplantation. We currently have the following positions open:**

### Protein Expression and Engineering

**Staff Scientist:** The ideal individual will have extensive experience in the optimized production of biopharmaceuticals. Experience with both prokaryotic and eukaryotic expression systems including protein engineering, expression vector systems, and protein recovery is required. Some experience with the purification of research quantities of novel proteins will be helpful. Excellent communication, organizational, and interpersonal skills are needed to effectively work in a team environment with other discovery, development, and manufacturing personnel. Industrial experience and familiarity with FDA guidelines for recombinant protein production will be advantageous. **Response Code: SSPE**

### Molecular Immunology

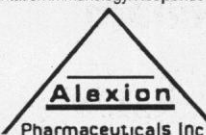
**Staff Scientist:** Alexion Pharmaceuticals, Inc. seeks a Scientist with extensive training in both Molecular Biology and Immunology. The successful candidate should possess a Ph.D. and/or M.D., be team oriented, and have an interest in the discovery and development of novel immunotherapeutics. Preference will be given to candidates who have demonstrated an expertise in either inflammation, autoimmune disease, and/or transplantation immunology. **Response Code: SSMI**

### Research Associates (BS/MS)

**Molecular Biology:** Alexion is looking for individuals with experience in molecular biological techniques to assist our Scientists in the discovery of novel drug candidates in the therapeutic areas of inflammation, autoimmune disease and transplantation. Experience in gene cloning, gene expression analysis, cDNA and genomic library construction and screening, yeast two hybrid cloning, phage display technology and cell culture is desired. A B.S. or M.S. degree and some work experience is required. **Response code: MB**

**Cell Biology, Immunology:** Must have experience in cell biology or immunology research. Experience in immunological assay development, ELISA, Western blotting, antibody purification, protein characterization, receptor binding and cell binding assays is desired. Additional experience with cell culture and molecular biology would be helpful. **Response code: CB**

*We offer a competitive salary and benefits package, relocation assistance and a stock option plan. Please send your resume, the names of references and indicate the position of interest by response code to:*



**Human Resources  
Alexion Pharmaceuticals, Inc.  
25 Science Park, New Haven, CT 06511  
Equal Opportunity Employer**



## DIRECTOR

### ENVIRONMENTAL STUDIES PROGRAM

Emory University seeks a Director for a new Environmental Studies Program, housed in Emory College, with associated activities in the Graduate School of Arts and Sciences and Professional Schools. The appointment will be a tenured professorship. Candidates should be at either the rank of associate or full professor. Candidates must demonstrate distinguished research contributions in either a natural or social science field, a history of strong research and programmatic support, a track record of effective interdisciplinary dialogue, and the ability to build cooperative intellectual teams. Candidates must also show evidence of a strong commitment to innovative teaching and administrative skills in program building, whether in an academic or nonacademic setting. Candidates are requested to send a letter describing their past experience, curriculum vitae, and names of three references to **Steven Sanderson, Vice-President for Arts and Sciences and Dean of Emory College, Room 300 White Hall, Emory University, Atlanta, GA 30322**. Applications will be reviewed beginning March 15, 1998. *Emory is an Affirmative Action, Equal Opportunity Employer. Women and minorities are encouraged to apply.*



**Gerald E. McGinnis  
Chair in Bioengineering  
University of Pittsburgh -  
School of Engineering**

Through the generosity of Gerald E. McGinnis, CEO of Respironics, an endowed Chair of Bioengineering has been established at the University of Pittsburgh.

We are seeking an individual with an outstanding record of research, as well as significant educational and professional contributions to bioengineering. We expect the selected individual to have a leadership role in the expansion and enhancement of bioengineering at the University of Pittsburgh. The current scope of our activities includes expertise in biomechanics, biochemical engineering, artificial organs, musculoskeletal research, and rehabilitation engineering and can be viewed on the Internet at [www.engr.pitt/~wwwbiotec](http://www.engr.pitt/~wwwbiotec). In addition to the \$1,500,000 endowment for the McGinnis Chair in Bioengineering, we recently received a \$3,000,000 Development Award from the Whitaker Foundation and a \$750,000 grant from the Keck Foundation for a Biomedical Rapid Prototyping Facility.

Applicants should hold a Ph.D. and have significant experience in an academic setting. A proven track record of leadership and scholarly accomplishment that would qualify for a full-time tenured appointment is essential. Full consideration of applications will begin immediately and will continue until the position is filled. A letter describing research and educational plans along with a complete curriculum vitae should be sent to:

**Professor Jerome S. Schultz  
Bioengineering Program  
Center for Biotechnology and Bioengineering  
300 Technology Drive  
Pittsburgh, Pennsylvania, 15219**



**Agricultural  
Research  
Service**

The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Horticultural Crops Quality Laboratory, in Beltsville, Maryland is seeking a Microbiologist/Research Food Technologist, GS-403/1382-12/13. Salary is commensurate with experience (GS-12: \$45,939-\$59,725 per year, GS-13: \$54,629-\$71,017 per year). *Candidates must be U.S. citizens.* The position conducts high priority basic and applied food technology and postharvest biology research on food safety and quality of fresh and fresh-cut fruits and vegetables. In addition to the basic education requirements, applicants must demonstrate: 1) knowledge of the principles, techniques, and procedures of microbiology, food technology, and plant physiology, 2) ability to design, plan, conduct multidisciplinary research, and analyze and publish results, 3) knowledge of plant postharvest biology and technology, and 4) skill in the application of techniques and procedures used in the study of human pathogenic bacteria. For information on the research program, contact **Dr. Ken Gross** on (301) 504-6128. This position has specific education and experience requirements, and factors that must be addressed. In order to ensure submission of a complete application, applicants must request a copy of the vacancy announcement by calling (301) 344-4638 or by printing it from the Internet at <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-D8B-058/B-8-02. The vacancy announcement closes 2/2/98. *USDA/ARS is an Equal Opportunity Employer.*

# ALLERGAN IS ON THE MOVE



## RETINOID RESEARCH

Allergan, a technology driven company, is a global leader in specialty pharmaceutical products. We currently have research opportunities in the therapeutic application of retinoids in diabetes and oncology at our Southern California headquarters. Allergan has an outstanding track record of vigorous research and discovery in retinoid biology and chemistry.

## RESEARCH SCIENTISTS - DIABETES

We are looking for enthusiastic and experienced scientists to undertake investigations in a number of areas, including:

- Molecular mechanisms of insulin action with specific emphasis on the effect of nuclear receptor ligands in overcoming insulin resistance.
- Cellular and endocrinological aspects of the regulation of glucose and lipid metabolism by these compounds in normal and diabetic animals.

## RESEARCH SCIENTISTS - ONCOLOGY

We are seeking expertise in the following areas:

- *In vivo* or *in vitro* models of neoplasia.
- Therapeutic mechanisms including retinoid action.
- Oncogene or tumor suppressor function.

Ideal candidates for both positions must have a Ph.D. in Biochemistry, Pharmacology, Molecular or Cellular Biology, Physiology or a related discipline, preferably with 1-4 years of post-doctoral experience. Must have strong research background and record of publication. Extensive experience in and familiarity with the diabetes or oncology area is highly desirable. Successful candidates will be asked to establish a vigorous research program, direct and train staff, and provide scientific leadership in their area of expertise.

We reward our employees with a competitive salary, an excellent benefits package and a great working environment. Please send resume to: **Allergan, Attn: T2-1R, ADTJ, Human Resources, 2525 Dupont Drive, Irvine, CA 92612, Fax: (714) 246-4223, E-mail: [resume@allergan.com](mailto:resume@allergan.com)** EOE.



**ALLERGAN**

[www.allergan.com](http://www.allergan.com)



Biogen has established a unique record of success as one of the world's premier biotechnology companies. Pioneering research by our scientists has led to the introduction of several important new medical therapies, including AVONEX (Interferon beta-1a), the most prescribed therapy in the U.S. for relapsing forms of multiple sclerosis. We are staking our future growth on the development of our next generation of pharmaceutical products, five of which are currently being tested in human clinical trials. Today, we are seeking the following committed professionals to join our expanding team in Cambridge.



## DEFINING SUCCESS in BIOTECHNOLOGY

### SCIENTIST

You will assist in the evaluation a number of molecules currently being studied in various neurobiological diseases as well as helping define new opportunities. Projects include the hedgehog and ret families and are part of a commitment to neurobiological diseases including stroke, ALS and Parkinson's disease. This position requires an individual with a Ph.D. and 3+ years of experience in molecular and cell biology with a focus on neurobiology. An Associate Scientist will report to this position.

### ASSOCIATE SCIENTIST

The successful candidate will possess a BS/MS in Biochemistry with at least 2-5 years of experience in tissue culture as well as molecular and cellular biology techniques. Experience with neurobiological systems preferred.

Biogen offers what few companies in our industry can - Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. Positions are available in our Cambridge, MA, facility. Please forward your resume to: Biogen, Inc., Job Code: RC, 14 Cambridge Center, Cambridge, MA 02142; Fax: (617) 679-2546; E-mail: ron\_cornila@biogen.com. Biogen is an Equal Opportunity Employer.

# BIAGEN®

DELIVERING ON THE PROMISE OF BIOTECHNOLOGY

<http://www.biogen.com>



...is what you will find at Otsuka America Pharmaceutical, Inc., a progressive, global organization. Otsuka is currently expanding its human science research capabilities in the United States and is seeking qualified individuals to help build a world class organization.

## SENIOR SCIENTIST, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE RESEARCH

We are seeking a senior scientist with a Ph.D. in biochemistry or cell biology. Qualified candidates should have at least 3-5 years of academic or pharmaceutical industry experience, and must have engaged in cyclic nucleotide phosphodiesterase (PDE) research, preferably in the cardiovascular area. Candidates must be skilled in an array of biochemical and molecular biological techniques including analysis of isozymes, analysis of signal transduction and modification of PDE activity. Experience with molecular cloning would be helpful. This scientist will be responsible for establishing a research lab involving PDEs and providing support to a strong diversified cardiovascular research team utilizing both in vivo and in vitro models.

We offer a competitive compensation and benefits package. Please mail or fax your resume with salary history to: **Staffing Department, Otsuka America Pharmaceutical, Inc., 2440 Research Boulevard, Rockville, MD 20850. Fax: (301) 212-8647.** An equal opportunity employer.

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## C.E. Block Professorship in Translational Cancer Research



The University of Iowa Cancer Center is seeking an outstanding translational cancer investigator to an endowed faculty position. The mission of this position is to conduct high quality cancer research, which will facilitate bringing important basic science findings to Phase I and II clinical trials for the prevention and treatment of cancer. Outstanding candidates will be sought for this tenure-track position at the rank of associate professor or professor. Appointment will be to one of several basic or clinical departments conducting cancer-related research within the College of Medicine.

The candidate will meet the following criteria:

- Demonstrated high quality research which has garnered appropriate extramural support
- M.D. or M.D. / Ph.D. degrees
- Credentials suitable for medical licensure in the state of Iowa
- At least five years of laboratory experience in research designed to address the pathogenesis, prevention, or treatment of cancer
- Experience in the design and execution of clinical research protocols
- A substantial national reputation for scientific quality and productivity

The University of Iowa Cancer Center has active, funded research programs in cell signaling and immunology in cancer, oxidative events in cancer pathogenesis, cancer epidemiology and control, viral oncology, clinical research including an emphasis on prostate cancer, and the extracellular matrix and cancer. Many other excellent programs in cancer research and control are in place. The Clinical Cancer Center at The University of Iowa has 88 inpatient beds, a large, multidisciplinary outpatient facility, and an active bone marrow transplant unit. The Center and the College of Medicine encompass a wide variety of comprehensive core laboratory facilities. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

Candidates should send résumés to: **Robert B. Wallace, M.D., Professor and Director, The University of Iowa Cancer Center, 200 Hawkins Drive, 5970 "Z" JPP, Iowa City, IA 52242.**

## GLOBAL OPPORTUNITIES



**RIKEN BRAIN SCIENCE INSTITUTE  
Japan**

### LABORATORY HEAD IN MOLECULAR NEUROPATHOLOGY RESEARCH GROUP

RIKEN, The Institute for Physical and Chemical Research (<http://www.riken.go.jp>) in Tokyo has launched the Brain Science Institute (BSI) (*Science* 275:1562, 276:1011, *Nature* 382:105) in October 1997. The Molecular Neuropathology Research Group was started as a division of the Institute, including three laboratories (see below) and is currently accepting applications for the Head of a fourth laboratory.

The first laboratory, directed by **Dr. Nobuyuki Nukina**, focuses on research of CAG repeat diseases (e.g., Huntington disease, hereditary spinocerebellar ataxia). The second laboratory, directed by **Dr. Akihiko Takashima**, conducts molecular biological research on Alzheimer disease. The third laboratory, directed by **Dr. Kazuhiro Yamakawa**, addresses the genetics of neuropsychiatric diseases, especially epilepsy and manic depressive illness.

The fourth laboratory, expected to start late in 1998, will investigate the molecular pathogenesis of Parkinson disease and/or amyotrophic lateral sclerosis. The laboratory head should organize a research team by recruiting 5-10 postdocs and/or technicians, and he/she will have generous research support for 5-7 years. He/she will be reviewed every 5 years by an international committee and can continue the laboratory when a good evaluation is given. Applications are encouraged from around the world, but the person will be required to work at RBSI full time.

Applicants should send their full curriculum vitae listing all publications, research interests and plans (within 1,000 words), and the names, addresses, and telephone numbers of three references to

**Search Committee #2, Brain Science Institute, RIKEN  
2-1 Hirosawa, Wako, Saitama, 351-0198 Japan.  
FAX: +81-48-462-4796  
e-mail: [search2@brain.riken.go.jp](mailto:search2@brain.riken.go.jp)**

Deadline for application: April 30, 1998.

## PREDOCTORAL FELLOWSHIP PROGRAM IN MOLECULAR THERAPEUTICS



This is a unique program between Novartis, the largest Life Science company in the world and the University of Medicine and Dentistry of New Jersey (UMDNJ) Graduate School of Biomedical Sciences at Robert Wood Johnson Medical School, one of New Jersey's premier academic institutions. The program will provide predoctoral students an integrated research training experience at UMDNJ and at the Novartis Research Institute for Biomedical Research.

The program will encompass cutting edge research e.g. cell cycle regulation, transcriptional control, signal transduction, cell-cell interactions and structural biology in the context of the Novartis therapeutic areas of transplantation, oncology, cardiovascular disease, diabetes, arthritis, lipid metabolism and gene and stem cell therapy.

We are looking for highly motivated, innovative students who have an interest in working in an interdisciplinary industry/university environment, and who ultimately desire a career in academia or industry.

A bachelor's degree, with a strong academic record, is required for admission.

Please send inquiries to Dr. Sidney Pestka, Novartis/UMDNJ Fellowship Program, 675 Hoes Lane, Piscataway, NJ 08854-5635. Final applications are due by March 15, 1998.

Application can be found at: [www2.umdj.edu/gsbspweb](http://www2.umdj.edu/gsbspweb)



### Neuroscientist/Neurologist

The J. David Gladstone Institutes  
and  
University of California, San Francisco

The J. David Gladstone Institutes and the Department of Neurology at UCSF seek an exceptional candidate with M.D. and/or Ph.D. degree for a position at the level of Assistant Professor. The successful candidate will be expected to collaborate with other Gladstone and UCSF neuroscientists to investigate the etiology of neurodegenerative diseases and contribute toward the development of better treatments for these conditions. Applicants should be committed to disease-related neuroscientific research and academic biomedicine. Board-certification in neurology and expertise in the following fields would be considered particular strengths: Alzheimer's disease, memory, apoptosis, electrophysiology, neuroreceptor function in artificial membranes, quantitative neuropathology, microarray technology. Excellent salary support and research facilities are available.

Please send curriculum vitae, a description of experience and interests, and three names of references to:

**Lennart Mucke, M.D.**  
**Gladstone Molecular Neurobiology**  
**Program, P.O. Box 419100**  
**San Francisco, CA 94141-9100.**

*The Gladstone Institutes and UCSF are Equal Opportunity/Affirmative Action Employers. Women, minority groups, and handicapped individuals are encouraged to apply.*

Somatogen Inc., a biopharmaceutical company located in Boulder, Colorado, currently engaged in the preclinical and clinical development of a recombinant hemoglobin, has two exciting opportunities available.

**PROTEIN BIOCHEMIST:** This newly created position will be responsible for characterization and structure/function studies of recombinant hemoglobins and will work closely with crystallographers to relate Hb function to structure.

Qualification requirements include a **Ph.D. in Biochemistry or Chemistry**, plus at least 2 years post doctoral experience. A good understanding of protein biochemistry and protein structure/function relationships are essential, with experience in small scale protein purification being desirable. Reference #1160.

**MOLECULAR BIOLOGIST:** This individual will be responsible for the design, expression, and bench scale purification of recombinant hemoglobin variants. New product development opportunities are also possible.

Qualification requirements include a **Ph.D. in Molecular Biology or related field**, plus at least 5 years post doctoral experience. Some industry experience is desirable. Experience in the areas of recombinant protein expression and small scale protein purification is essential. Knowledge of protein structure/function relationship is desirable. Reference #1171.

To be successful, candidates need a high level of technical expertise in order to achieve goals with minimum close supervision. Personal qualities must include a preference for a highly collaborative, team-based work environment, supported by strong communication skills. A strong publication record and ambition to publish is required.

Somatogen offers a competitive salary and benefits package, plus relocation assistance within the USA. Interested candidates, please send a resume or email by March 6, to: Somatogen, Inc., HR Ref.#\_\_\_\_, 2545 Central Avenue, Boulder, CO 80301, Fax: (303) 443-7343, or Email: [dwood@somatogen.com](mailto:dwood@somatogen.com) An Equal Opportunity Employer

## SOMATOGEN

# THE BAYER FACTS:



**Bayer:**

**A premier  
healthcare  
company for  
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Our business is  
to significantly improve  
health worldwide.

People are the heart  
of our company.

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inspires and commits  
all to do their best.



**Pharmaceutical  
Division**

## ASSISTANT DIRECTOR SCIENTIFIC COMMUNICATIONS

■ In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" that distinguish us as a leader. To name a few, we are part of Bayer Corporation, a \$32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Pharmaceutical Division has worldwide responsibility for the research and development of treatments for cancer; diabetes; osteoporosis and obesity.

■ You will plan, develop, write, revise, produce and place articles and other publications in the scientific press and medical literature based on Bayer strategies and objectives. You will also plan, develop and implement continuing education programs and materials in accordance with Bayer strategies and in conjunction with professional societies and continuing education agencies, as well as develop and implement appropriate U.S. components of the international publication strategies and objectives.

■ A strong scientific/medical background, a PhD or PharmD in a scientific/medical discipline, plus a minimum of five years of experience in a related scientific/medical/pharmaceutical area required. A minimum of four years of experience must include medical writing. Demonstrated ability to interpret scientific and clinical trial data, strong scientific writing ability and excellent editorial and interpersonal skills essential. Must be independent, creative, innovative and able to juggle a variety of projects. Must also be a self-starter and able to maintain a high level of productivity with minimal supervision. Ability to supervise consultants and motivate individuals along with knowledge of computerized bibliographic, abstract, and database services necessary.

■ ...and there's one more fact. If you're ready to join us, there's no better time than now. Please forward your resume including salary history to:

**Bayer Corporation,  
Pharmaceutical Division,  
Department SA-C28-AB,  
400 Morgan Lane, West Haven,  
CT 06516.** No agencies or phone calls please. For more information on Bayer, search:  
<http://www.careermosaic.com/cml/bayer/>

■ An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to enhancing and maintaining cultural diversity within our work environment.

■ We appreciate your interest in our company. Unfortunately, we will only be able to respond to those individuals chosen for interviews or additional follow-up.

## Postdoctoral Positions Structural Biology Purdue University

The following opportunities exist for highly motivated Ph.D.'s to join one of the 14 vigorous groups in structural biology. Our interdisciplinary environment includes over 70 graduate students and postdocs and well-equipped facilities.

### Crystallography

- Structure, function, and engineering of enzymes involved in the degradation of PCBs (**J.T. Bolin**, [jtb@cc.purdue.edu](mailto:jtb@cc.purdue.edu))
- Biochemist to learn crystallography on proteins in infection, aging, and repair (**A. Friedman**, [afried@bilbo.bio.purdue.edu](mailto:afried@bilbo.bio.purdue.edu))
- Structure and genetics of signal transducing and metabolic enzymes (**M. Hasson**, [mhasson@bragg.bio.purdue.edu](mailto:mhasson@bragg.bio.purdue.edu))
- Recognition of membrane receptors in P-Tyr signaling and toxin cell entry (**C. Stauffacher**, [cyndy@gauguin.bio.purdue.edu](mailto:cyndy@gauguin.bio.purdue.edu))

**NMR** Heteronuclear NMR to examine structure and dimerization of mutant chemokines (**P. LiWang**, [liwang@chem.purdue.edu](mailto:liwang@chem.purdue.edu))

**EM** Cryo-EM and image analysis of viruses and virus-Ab/receptor complexes (**T. S. Baker**, [tsb@bragg.bio.purdue.edu](mailto:tsb@bragg.bio.purdue.edu))

**Computation** Molecular recognition and antiviral activity in rhinovirus by MD stimulation. (**C. B. Post**, [cbp@cc.purdue.edu](mailto:cbp@cc.purdue.edu))

Interested, qualified Ph.D.'s should send CV and research interests and arrange for 3 letters to be sent to the **P.I.: Baker, Bolin, Friedman, Hasson, Stauffacher: Dept. of Biological Sciences, 47907-1392. LiWang: Chemistry Dept., 47907-1393. Post: Dept. of Medicinal Chemistry, 47907-1333. All: Purdue University, West Lafayette, IN. Purdue is an EO/AA Employer.**



Bracco Research USA Inc., the U.S. Research and development labs of Bracco S.p.A., one of the world's leaders in contrast media for *in vivo* diagnostics, has an opening

for a junior-level biologist in our Princeton, NJ laboratories. In this position, the successful candidate will work on the development of targeted contrast agents for Nuclear Medicine, ultrasound or MRI, used in the detection of lesions involving the vascular endothelium. The successful candidate will join an established program involving combinatorial chemistry and screens together with more traditional drug development processes to identify leads and bring them to clinical trials. Relevant equipment includes cell culture facilities, a 2T MRI imaging System and a clinical grade SPECT gamma camera.

The successful candidate will have a Ph.D. in vascular biology, 1-3 years postdoctoral research experience and will ideally have experience with primary cultures of human vascular endothelial cells and an interest in angiogenesis, atherosclerosis, or inflammation.

Bracco Research USA offers excellent salary opportunities and a benefits program which includes a tax sheltered income program, group life insurance, major medical and dental coverage, and educational assistance. For consideration, please submit your résumé with salary requirements and a cover letter to:

**Catherine Berle, Bracco Research USA, Inc.,  
305 College Road East, Princeton, NJ, 08540  
FAX: 609-514-2446**



## U.S. Environmental Protection Agency Office of Research and Development

EPA is seeking four highly qualified scientific managers to provide executive leadership for research strategically located in ecologically significant geographic regions across the U.S. These divisions contributing to developing the scientific foundation to support EPA's mission with emphasis on reducing uncertainty in risk assessment. Successful candidates for these positions will plan, develop, organize, direct, and implement multimillion dollar research programs.

**Division Director, Environmental Sciences Division, National Exposure Research Laboratory, Las Vegas, Nevada.** This Division is responsible for conducting research, and for directing development and technology transfer programs on environmental exposures to ecological and human receptors. Areas of specialization include:

- methods for characterizing chemical and physical programs on environmental exposures to ecological exposure.
- Landscape and regional assessment capabilities through the use of remote sensing and advanced spatial analysis techniques.
- application of advanced monitoring technology to issues involving surface and subsurface contamination.

**Division Director, Mid-Continent Ecology Division, National Health and Environmental Effects Research Laboratory, Duluth, Minnesota.** This Division performs research to provide scientific information on ecotoxicology and freshwater ecological effects with an emphasis on the Great Lakes and Great Plains regions. Areas of specialization include:

- understanding mechanistic bases of aquatic toxicity.
- developing methods and models that screen, diagnose, and predict ecological effects for use in ecological effects in ecological risk.

**Division Director, Atlantic Ecology Division, National Health and Environmental Effects Research Laboratory, Narragansett, Rhode Island.** This division's research focuses on marine, coastal, and estuarine ecology. Investigators develop and evaluate theory, methods, and data on coastal waters and watershed of the Atlantic. Areas of specialization include:

- modeling the effects of multiple stressors on coastal ecosystems.
- developing methods for assessing ecological effects associated with contaminated marine sediments.
- conducting geographic-based ecological assessments for the Atlantic coast.

**Division Director, Gulf Breeze Ecology division, National Health and Environmental Effects Research Laboratory, Gulf Breeze, Florida.** The mission of this Division is to assess the condition of coastal ecosystems (wetlands, bays, estuaries, and coral reefs) in the Gulf of Mexico and to identify causes of change in ecological status. Areas of specialization include:

- studies of effects across multiple levels of biological organization (from microorganism to the watershed/landscape level).
- developing models that predict the impact of chemical contaminants, disease, nutrients, energy development, and global warming ecosystems.
- microbial ecology.

To meet the requirements of these positions, applicants must have a Bachelor's (or higher) degree in one of the biological or physical sciences (advance degree preferred, but not required). Candidates must also have competence and substantive (operating, administrative, or managerial) experience in a type of work or a combination of functions directly related to this position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary will be commensurate with level of appointment in the federal Senior Executive Service. To obtain a copy of the vacancy announcement for each position in which you are interested, call or write to:

**Ms. Dione Moody, U.S. Moody, U.S. EPA, Executive Resources & Special Programs (34641)  
401 M Street S.W., Washington, DC 20460. The telephone number is 202-260-6374.**

Applications must be postmarked by 3/27/98.

*EPA is an Equal Opportunity Employer.*



## POSITIONS OPEN

### NEUROBIOLOGY CARNEGIE MELLON UNIVERSITY

The Department of Biological Sciences at Carnegie Mellon University seeks to fill the first of three **TENURE-TRACK FACULTY POSITIONS** as part of an expansion in the area of neurobiology in collaboration with the Center for the Neural Basis of Cognition (CNBC). At least one appointment each is expected in invertebrate and vertebrate neurobiology. The successful candidates are expected to develop independent research programs and to participate in the teaching of undergraduate and graduate students. Preference will be given to candidates who use interdisciplinary approaches including molecular and genetic methods in tractable model systems. Specific research interests can include problems in developmental neurobiology, neuronal function, learning, memory, or other areas of cognitive/functional neuroscience. The successful candidates will benefit from the strengths of the CNBC in neurophysiology, functional imaging, behavioral analysis, and computational modeling of the neural basis of cognition, from existing strengths of the Department of Biological Sciences in cellular and developmental biology, genetics/molecular biology, microscopy, biological detection, imaging, and computing, and from the full breadth of the neuroscience community at Carnegie Mellon and the University of Pittsburgh. Applicants must have a Ph.D. and relevant postdoctoral experience. Please send a curriculum vitae and a description of the proposed research program and have three letters of recommendation sent to: **Biological Sciences Search Committee, Carnegie Mellon University, Mellon Institute, Box L, 4400 Fifth Avenue, Pittsburgh, PA 15213**. Review of applications will begin on March 1, 1998, and continue until a suitable candidate is identified.

*Our department is eager to diversify its faculty; we encourage women and minorities to apply. Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.*

### CHAIR DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY SCHOOL OF MEDICINE Oregon Health Sciences University

The Oregon Health Sciences University School of Medicine is seeking applicants for the position of Professor and Chair of the Department of Physiology and Pharmacology. The University has a strong basic science research establishment, an organized faculty practice, and nationally recognized curriculum reform. Candidates should have achieved national recognition for academic accomplishments. Please submit a curriculum vitae and career goals to:

**Richard Maurer, Ph.D.**

Associate Dean

Chair, Physiology and Pharmacology  
Search Committee

Oregon Health Sciences University  
School of Medicine, L102

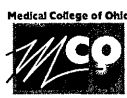
3181 S.W. Sam Jackson Park Road  
Portland, OR 97201-3098

*Oregon Health Sciences University is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION ANATOMY AND NEUROBIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for a tenure-track faculty position to begin approximately September 1, 1998. Applicants must have a doctoral degree and postdoctoral experience. Preference will be given to candidates in the fields of cellular and molecular neuroscience, particularly as they apply to issues of development, neural systems, or response to injury. The ability to develop and maintain an independently funded research program is essential. Teaching duties are open in the areas of neuroscience, histology, or gross anatomy. The position offers excellent start-up opportunities in a rich neuroscience research environment. Send curriculum vitae, list of publications, a summary of research goals, and names and addresses of at least three individuals who can provide letters of recommendation to: **Richard T. Robertson, Ph.D., Professor and Chair, Department of Anatomy and Neurobiology, University of California, Irvine, CA 92697-1275**. E-mail: [rtrobert@uci.edu](mailto:rtrobert@uci.edu). Applications should be received by April 15, 1998. *University of California, Irvine is an Equal Opportunity Employer, committed to excellence through diversity.*

## POSITIONS OPEN



### RESEARCH FACULTY POSITION ASSOCIATE PROFESSOR/ PROFESSOR LEVEL Department of Surgery Medical College of Ohio at Toledo

Ph.D. Experience working with residents and graduate students desirable. Salary and laboratory space related to amount of transferable grant funding. Send curriculum vitae to: **Neil R. Thomford, M.D., Interim Chairman, Department of Surgery, Medical College of Ohio, 3065 Arlington Avenue, Toledo, OH 43614-5807**.

### SENIOR NEUROLOGIST FACULTY POSITION IN ALZHEIMER'S DISEASE RESEARCH Institute for Brain Aging and Dementia College of Medicine, Department of Neurology School of Biological Sciences University of California, Irvine

Applications are invited for a tenured, Senior Neurologist faculty position dually appointed in the College of Medicine, Department of Neurology and in the School of Biological Sciences, Department of Psychobiology. This individual is expected to take a leadership role in the Alzheimer's Disease Program that is designated both as an Alzheimer's Disease Research Center and as an Alzheimer's Disease Diagnostic and Treatment Center (State of California, DHHS), structured within the Institute for Brain Aging and Dementia. The successful candidate will be one who demonstrates appropriate leadership skills, including the ability to maintain effective interactions over a range of basic science and clinical disciplines related to the study of Alzheimer's disease. Candidates should have a record of outstanding research accomplishment as evidenced by national and international recognition, appropriate funding record, and proven ability to train graduate and postdoctoral researchers. Examples of areas of research foci might include neuroimaging applications, dementia subtype analyses, and/or biological markers of dementia. The level of appointment is commensurate with the credentials of the successful candidate.

Candidates holding an M.D. degree and Board certification in neurology are invited to apply by sending a letter of interest, a curriculum vitae that includes a record of teaching and research experience, and the names and addresses of three referees to: **University of California, Irvine, Dr. Carl W. Cotman, Institute for Brain Aging and Dementia, Biological Sciences II, Room 1305, Irvine, CA 92697-4540**. Refer to Position #98-C.

*The University of California, Irvine: rooted in education, enriched by diversity.*

### FACULTY POSITIONS IN CELLULAR NEUROBIOLOGY OREGON HEALTH SCIENCES UNIVERSITY (OHSU)

As part of an expansion in its basic research program, the Center for Research on Occupational and Environmental Toxicology (CROET) at OHSU invites applications for faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. We seek individuals who use developmental, genetic, molecular, or cell biological approaches to address fundamental problems in neuroscience. The ability to develop a vigorous, independent research program is of paramount importance, as is a commitment to graduate and postdoctoral training. CROET, whose laboratories occupy three floors in the new Basic Science Building, is a neuroscience-focused institute dedicated to promoting the health of Oregon's work force. Its activities extend from laboratory and clinical research to education and outreach. The neuroscience community at OHSU includes nearly 100 faculty members representing great depth and diversity in molecular, cellular, systems, developmental, and behavioral research. Applicants should submit a curriculum vitae and statement of research plans and have three letters of reference sent to: **Gary Banker, Director of the Program in Cellular Neurobiology, CROET/L606, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-4278**.

## POSITIONS OPEN

### CHAIR—DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF ALABAMA AT BIRMINGHAM

The University of Alabama Schools of Medicine and Dentistry are seeking applications and nominations for the endowed position of McCauley Professor and Chair of the Department of Microbiology. The person filling this position will assume the leadership of a strong, mature faculty housed in modern research space. The department's long tradition of research excellence is reflected in its exceptional level of productivity and support. Nonetheless, the new Chair will have an opportunity to expand the department and also play an important role in the development of a campus-wide Genetics Center.

Applicants must have Ph.D., M.D., or equivalent degree, have a strong and well-funded research program in any aspect of microbiology, including immunology, microbial genetics, pathogenesis, or virology, have a commitment to graduate and medical education, and have a record of demonstrated leadership.

A profile of the department and its faculty may be found at the website: <http://www.microbio.uab.edu>. The Search Committee, headed by **Richard B. Marchese, Ph.D.**, Chair of Cell Biology, will begin its review of applications on March 31. Interested applicants should submit a curriculum vitae and the names of three references to:

**Amy Thompson, Director  
Administrative Services  
University of Alabama School of Medicine  
University Station  
c/o Medical Dean's Office-MEB 310  
Birmingham, AL 35294-3293**

*The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.*

### DIRECTOR CENTER OF EXCELLENCE IN MATH AND SCIENCE EDUCATION Black Hills State University

Tenure-track position will begin August, 1998, and rank will depend on qualifications and experience. Responsibilities include the development of models for science education and research across the country, teach undergraduate and graduate courses in math and science education, write and administer grants, be a catalyst for scholarly research presentations and publications from the center, and promote effective use of technology for science education. A doctorate in science education or a science with appropriate experience in the schools is required.

Location: Black Hills State University is a comprehensive, regional institution located in Spearfish, South Dakota, with a current enrollment of 2,800 students at the main campus and another 1,000 students at the Ellsworth Air Force Base branch campus. The university's location provides the ideal environment for combining outdoor recreational and collegiate educational opportunities in a small-town setting.

Send a completed application including a letter of application, curriculum vitae, vision statement in regards to creating a nationally recognized center, statement of research interests, and three letters of reference to: **c/o Vice President of Academic Affairs, Search Committee Center of Excellence, Black Hills State University, 1200 University Avenue, Spearfish, SD 57799**. Applications will be accepted until the position is filled.

### FACULTY POSITION ALBERT EINSTEIN COLLEGE OF MEDICINE X-RAY CRYSTALLOGRAPHY

The Department of Biochemistry at the Albert Einstein College of Medicine is seeking a faculty member with experience in solving biochemical problems by X-ray crystallography. Faculty rank in this tenure-track position will be determined by prior experience. The X-ray crystallography laboratory is equipped with two area detectors and extensive molecular graphics equipment. A synchrotron beamline facility at Brookhaven National Laboratory is operated by the College. Numerous collaborative projects are available within the College. Applicants should send a curriculum vitae, letters from three or more references, and a summary of research interests and future research plans to: **Search Committee, Department of Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461**. *The Albert Einstein College of Medicine of Yeshiva University is an Equal Opportunity Employer.*

## ASSISTANT DIRECTOR FOR POLICY AND PUBLIC AFFAIRS

National Institutes of Health, National Human Genome Research Institute, Bethesda, MD

The National Institutes of Health (NIH) invites nominations and applications for the position of Assistant Director for Policy and Public Affairs, Office of the Director (OD), National Human Genome Research Institute (NHGRI). This is a Civil Service position in the Senior Executive Service (SES), with base salary ranging from \$106,412 to \$125,900 per year depending on qualifications. A recruitment bonus of up to 25 percent of base pay may be available to a non-federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25 percent may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. Members of the Commissioned Corps of the U.S. Public Health Service and SES reinstatement eligibles will be considered. The position requires professional training in a health science or allied scientific field.

The Office of Policy and Public Affairs, NHGRI, provides leadership in planning, coordinating, analyzing, and evaluating the Institute's scientific research and research training programs; monitors and analyzes Federal, State, and local government scientific, legislative, regulatory and judicial activities related to the conduct of the Human Genome Project, human genetics research, and the associated ethical, legal and social implications. The Assistant Director for Policy and Public Affairs manages an operating budget of \$846,000 and a staff of 12.

For an application package, contact Ms. Janis Thurman, National Human Genome Research Institute, 9000 Rockville Pike, Building 31, Room 4B25, Bethesda, Maryland 20892, PHONE: (301)402-4833, FAX: (301) 402-4831, E-Mail: janist@exchange.nih.gov

*Applications will be accepted for this position through close of business, March 13, 1998.*

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental handicap, age or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

## COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES University of California, Davis

Inquiries are invited from qualified applicants for faculty positions currently available. Positions are 9-month tenure-track appointments unless otherwise indicated.\* Eleven-month term employment will be offered and continued based upon academic personnel review.

Assistant Professor of Restoration Ecology. Teach courses within the Environmental Horticulture and Urban Forestry major and conduct research on issues related to development of practical methods of achieving sustainable habitats and landscapes and in rescuing endangered California vegetation and species. Apply to: **Dr. Michael Barbour, Search Committee Chair, Dept. of Environmental Horticulture, e-mail: mgbarbour@ucdavis.edu.** Position is open until filled; to ensure consideration, applications should be received by March 1, 1998.

Associate/Full Professor of Insect Systematics (Evert & Marion Schlinger Endowed Chair). Teach and conduct research in the area of systematics of insects. Apply to: **Lynn Kimsey, Search Committee Chair, Dept. of Entomology, e-mail: bohart@ucdavis.edu.** Position open until filled; to ensure consideration, applications should be received by March 2, 1998.

Associate/Full Professor of Brewing Science (Anheuser-Busch Endowed Professorship). Teach and conduct research on malting and brewing processes. Apply to: **Norman Haard, Search Committee Chair, Dept. of Food Science & Technology, e-mail: nfhaard@ucdavis.edu.** Position is open until filled; to ensure consideration, applications should be received by March 15, 1998.

Assistant Professor of Biomechanical Engineering. Teach and conduct engineering research in the area of biomechanics and ergonomics. For information, contact: **John Miles, Search Committee Chair, Dept. of Biological and Agricultural Engineering, e-mail: jamiles@ucdavis.edu.**

Assistant Professor of Watershed Hydrology. Teach an undergraduate field course in hydrology, an undergraduate course in watershed hydrology, and a graduate course in experimental hydrology. Develop a quantitative field-experimental research program in watershed hydrology emphasizing processes that may include precipitation and runoff, wetland hydrology, snow hydrology, surface water and groundwater interaction, and chemical cycling in watershed. Apply to: **J. W. Hopmans, Search Committee Chair, Hydrology Program, Dept. of Land, Air and Water Resources, e-mail: jwhopmans@ucdavis.edu.** For additional information, see the departmental homepage at <http://hydrosoci.ucdavis.edu>. Position is open until filled; to ensure consideration, applications should be received by March 27, 1998.

Assistant/Associate Professor of Range Animal Science. Teach and conduct research in the area of range livestock production systems and the environment. Apply to: **James Oltjen, Search Committee Chair, Dept. of Animal Science, e-mail: jwoltjen@ucdavis.edu.** Position open until filled; to ensure consideration, applications should be received by May 1, 1998.

\*Assistant 4-H Youth Development Cooperative Extension Specialist. (11-month, career-track position). Develop research on youth and family relationships, build collaborative programs with nutrition, and family and consumer science advisors; in addition, strengthen the family education component of the 4-H Youth Development Program. For information contact: **Larry Harper, Dept. Chair, Human & Community Development, e-mail: lharper@ucdavis.edu.**

\*Assistant/Associate Cooperative Extension Specialist in Environmental Policy. (11-month, career-track position). Develop a high-quality program in research and outreach related to the environmental policy needs of state, federal, and local officials. Experience with water, land use, and policy issues in California is highly desirable. Those with degrees in the environmental sciences should have an interest and experience in working with governmental officials. Those with a degree in the policy sciences should have an interest and experience in natural resource management and in working with governmental officials. Strong research and communication skills. Apply to: **Paul Sabatier, Search Committee Chair, Department of Environmental Science and Policy, e-mail: pasabatier@ucdavis.edu.** Position is open until filled; to ensure consideration, application should be received by April 1, 1998.

Professorial positions have responsibilities for teaching, advising, and research (in the Agricultural Experiment Station) and require teaching and research experience. Candidates must have a Ph.D. in an appropriate field.

Applicants should submit résumé, transcripts (if within five years of graduation), statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant's qualifications to individual and department as noted for position (department name), **University of California, Davis, CA 95616.** Please indicate the position(s) in which you are interested.

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

## POSITIONS OPEN

The Institute for the Study of Planet Earth at the University of Arizona is accepting applications for the position of **DIRECTOR**. This is a full-time, regular faculty position, with responsibilities divided about equally between administration and teaching/research.

The Institute for the Study of Planet Earth (ISPE) was established at the University of Arizona in 1994 to foster an interdisciplinary approach to education, research, and information exchange on global and regional environmental questions. ISPE's activities involve faculty and students from across the university, including the colleges of Agriculture, Engineering and Mines, Science, and Social and Behavioral Science, as well as several other institutes and centers.

The Director will provide leadership at ISPE and within the university in interdisciplinary research, teaching, and outreach in the broader area of environmental science and management. Among other qualities, candidates for the position should have a strong record of academic achievement; an ability to organize and lead interdisciplinary research; good communication skills; a strong commitment to excellence in instruction, research, and the service mission of the university; and an ability to work effectively within the framework of a large university, as well as with groups external to the university. The Director should have the qualifications necessary to hold a tenured position with the academic rank of Professor in an appropriate academic department. Salary will be commensurate with experience and other qualifications.

Review of applications will begin immediately and continue until the position is filled. Applications should include a current curriculum vitae and names of three references, and should be sent to:

**Prof. James Shuttleworth, Search Committee Chair**  
c/o Institute for the Study of Planet Earth  
1439 East Helen Street  
The University of Arizona  
Tucson, AZ 85721

For further information about ISPE, please contact **Roger Bales**, ISPE's Interim Director (e-mail: [roger@hwr.arizona.edu](mailto:roger@hwr.arizona.edu)), or any member of the ISPE executive committee (see website: [www.arl.arizona.edu/ispe/](http://www.arl.arizona.edu/ispe/) for a list).

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

## PROFESSOR AND CHAIR DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY College of Pharmacy University of Utah

The University of Utah seeks an outstanding scientist and educator to fill the position of Chair of the Department of Pharmacology and Toxicology. The Department has 23 full-time and 11 adjunct faculty; has educational responsibilities for professional students in the College of Pharmacy and School of Medicine; and has established an admirable record of accomplishments in graduate training with major research emphasis in the areas of neuropharmacology and toxicology.

Responsibilities of the Chair include providing leadership for the department; conducting a successful research program which complements others in the department, college, and university; supporting the varied educational missions of the department; and establishing productive interactions with other units within the Colleges of Pharmacy and Medicine, the Health Science Center, and on campus. Candidates should hold a doctoral degree, have an outstanding record in research and have a clear commitment to professional and graduate education, have a national and international reputation commensurate with appointment at the level of Professor, and have demonstrated administrative skills.

Applications will be accepted until April 15th, 1998, or until a suitable candidate is identified. Selection of candidates for interview will begin immediately.

Send application (including curriculum vitae, statement of professional goals, three names of referees) to: **Chris M. Ireland, Ph.D., Chair, Pharmacology and Toxicology Search Committee, University of Utah College of Pharmacy, 201 Skaggs Hall, Salt Lake City, UT 84112 USA.** Telephone inquiries should be directed to: **Dr. Ireland, Telephone: 801-581-8305; e-mail: [cireland@deans.pharm.utah.edu](mailto:cireland@deans.pharm.utah.edu).**

The University of Utah is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are encouraged.

## POSITIONS OPEN

### NUTRITIONAL AND FOOD SCIENCE ASSISTANT PROFESSOR POSITIONS DEPARTMENT OF FOOD SCIENCE AND HUMAN NUTRITION

Iowa State University, Ames, Iowa

The expanding program of the Department of Food Science and Human Nutrition is seeking three faculty in areas of (1) community nutrition with expertise in nutritional epidemiology, anthropology, and/or sociology; (2) nutritional science with emphasis in molecular and/or genetic regulations of nutritional diseases; and (3) food science with research in food systems. Positions will be nine-month tenure-track with teaching, research, and ancillary outreach responsibilities. Positions will receive 12-month salary funding for the first three years as part of a generous start-up package. Ph.D. or equivalent and post-doctoral experience or relevant advanced training is required. Evidence of potential for developing competitive research that complements departmental programs is expected. Teaching responsibilities will be in graduate and undergraduate programs in the department in areas of expertise of the candidates. The department activities are closely affiliated with the Center for Designing Foods to Improve Nutrition (a USDA-funded research center) and the Center for Crops Utilization Research. Extensive biotechnology and pilot plant facilities and opportunities for multidisciplinary collaboration provides excellent support for research. Applicants should submit a letter of application indicating the positions for which they wish to be considered, a curriculum vitae, a statement of planned research direction, and a statement of interest in teaching and outreach/extension. They should submit three names of individuals who are willing to provide letters of reference upon request of the search committee. Applications are to be sent to: **Dr. Diane F. Birt, Ph.D., Professor and Chairman, Department of Food Sciences and Human Nutrition, 1127 Human Nutritional Sciences Building, Iowa State University, Ames, IA 50011-1061. Telephone: 515-294-3011; FAX: 515-294-8181; e-mail: [dbirt@iastate.edu](mailto:dbirt@iastate.edu).** Departmental information is available at website: <http://www.ag.iastate.edu/departments/foodsci/FoodSci.html>. Applications will be considered beginning April 15, 1998, and accepted until the positions are filled. Iowa State University is an Equal Opportunity Employer.

### ASSOCIATE PROFESSOR PLANT COMMUNITY ECOLOGIST DEPARTMENT OF BIOLOGICAL SCIENCES The University of Texas at El Paso

University of Texas at El Paso's Department of Biological Sciences and the Environmental Science and Engineering Doctoral Program seeks an established Ecologist for full-time appointment at the rank of Associate Professor or Professor. We are seeking an individual with strong quantitative skills and a focus on the impact of human activities on southwestern plant ecosystems. Candidates should have a strong commitment to research and teaching at both the undergraduate and graduate level. Salary and tenure are negotiable. For more information, see website: [www.utep.edu/biology](http://www.utep.edu/biology). Submit résumé, statement of research interests, teaching philosophy, and listing of three current references (name, address, telephone) to: **Dr. William MacKay, University of Texas at El Paso, Department of Biological Science, El Paso, TX 79968-0519.** Review of applicants will begin March 15, 1998. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services.

**AQUATIC SYSTEMS ECOLOGIST/LIMNOLOGIST.** Texas A&M University System (TAMUS) invites applications for a tenure-track **ASSISTANT PROFESSORSHIP**, with joint appointment in wildlife and fisheries sciences (90 percent) and oceanography (10 percent). The appointee will hold an earned doctorate in aquatic ecology, limnology, or related discipline. She or he will teach an undergraduate course in limnology and a graduate specialty course, annually; mentor graduate students; conduct extramurally funded research in aquatic systems ecology; and otherwise participate in one or more of TAMUS' acclaimed programs in fisheries science, estuarine ecology, and aquaculture (website: <http://www.tamu.edu/>). Send application letter, résumé, and names/addresses of three references by 10 March 1998 to: **Dr. W. H. Neill, Department of Wildlife and Fisheries Sciences, Texas A&M University System, College Station, TX 77843-2258. E-mail: [wncill@tamu.edu](mailto:wncill@tamu.edu).** TAMUS is an Equal Opportunity Employer and encourages applications from women and minorities.

## POSITIONS OPEN

### UNIVERSITY OF ALABAMA AT BIRMINGHAM BACTERIAL GENETICS

A tenure-track faculty position in any area of bacterial genetics is available in the Department of Microbiology. While we anticipate filling this position at the **ASSISTANT PROFESSOR** level, exceptional **SENIOR SCIENTISTS** will also be considered. Candidates should have a Ph.D. degree or equivalent and have demonstrated excellence, originality, and productivity in research. A strong commitment to graduate and medical teaching also is required. We are most interested in fostering independent research in an environment of interactive collegiality.

The successful applicant will have the opportunity to join a highly interactive faculty with large pre- and post-doctoral NIH-supported training programs. The graduate program is an interdepartmental program in cell and molecular biology. Faculty activities focus on: microbial physiology and genetics; gene expression; pathogenesis; vaccine development; molecular and cellular immunology; mucosal immunology; and viral structure, replication, and assembly. The Department of Microbiology is a component of the Joint Health Sciences within the Schools of Medicine and Dentistry. Excellent core research facilities are available. The University has over 50 research centers including an NIH-supported Center for AIDS Research, Immunobiology Vaccine Center, Center for Macromolecular Crystallography, and Comprehensive Centers for Cancer and Arthritis.

Candidates should submit written applications, including curriculum vitae, a brief statement of research accomplishments and teaching interests, a brief description of future research plans, and arrange for three letters of reference to be sent to: **Ms. Ella Robinson, Department of Microbiology, University of Alabama at Birmingham, BBRB Room 442/6, Birmingham, AL 35294-2170.** Review of applicants will begin in March, and the closing date for receipt of the complete application package and reference letters is April 15, 1998.

The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

### VERTEBRATE PHYSIOLOGIST

The Department of Biology at the University of South Florida (USF) invites applicants for an anticipated full-time (nine-month) tenure-track position at the level of **ASSISTANT PROFESSOR** effective August 1998. A Ph.D. and postdoctoral research experience in physiology are required. The successful candidate will be expected to train M.S. and Ph.D. graduate students, and to establish an externally funded research program employing modern physiologic techniques. Teaching will be in undergraduate organ systems physiology and specialty graduate courses. Intra- and interdepartmental collaborations are facilitated through the Institute for Biomolecular Science, the Institute on Aging, and the USF Medical School. USF, the second largest university in Florida, is a comprehensive research/teaching university. Applicants should forward a letter of intent, curriculum vitae, representative reprints, and statements of research and teaching interests, and should arrange for three letters of recommendation to be forwarded. Deadline for receipt of all materials is March 20, 1998. Mail materials to: **Chair of Physiology Search Committee, Department of Biology, University of South Florida, Tampa, FL 33620-5150.** USF is an Affirmative Action/Equal Opportunity/Equal Access Institution. For disability accommodations, **Telephone: 813-974-3250.**

### DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS CASE WESTERN RESERVE UNIVERSITY

The Department of Physiology and Biophysics invites applications for both **JUNIOR- and SENIOR-LEVEL** faculty positions. Suitable areas of research include, but are not limited to, cellular and molecular approaches to systems integrated physiology, with emphasis on cardiorespiratory systems and hypoxia. We offer a highly competitive compensation package, ample start-up funds, and state-of-the-art research facilities. Salary and rank will be commensurate with qualifications and experience. Submit curriculum vitae, a brief statement of research interest(s), three representative reprints, and the names, addresses, and telephone numbers of four references to: **Marianne Spork, Department of Physiology and Biophysics, 10900 Euclid Avenue, Cleveland, OH 44106-4970.** Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

## Cytoskeletal Drug Discovery

**Cytokinetics, Inc.** is an early stage biotechnology company looking to attract creative and innovative scientists to join their scientific team in building a new leading enterprise in the area of cytoskeletal pharmacology and molecular motor based drug discovery. Currently we seek outstanding, energetic individuals at the senior and associate scientist level in the following areas:

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MOLECULAR BIOLOGY  
CELL BIOLOGY  
HIGH-THROUGHPUT SCREENING**

The successful candidates will be intimately involved in the design and performance of research and technology development that will produce a broadly based drug discovery platform involving the evolving field of cytoskeletal pharmacology including molecular motors, microtubule and actin binding proteins and the biopolymers microtubules and actin. Senior Scientists must have a Ph.D. and at least 3 years of postdoctoral experience with a desire to work with others. Associate scientists will have a B.S./M.S. and at least 2 years experience in the above areas.

Cytokinetics, Inc., located in the Bay Area offers competitive salaries, full benefits, and an attractive equity package. Please fax or mail your résumé to: **Cytokinetics, Inc., 4305 20th Street, San Francisco, CA 94114. Fax: (415) 821-4358. EOE.**

**Cytokinetics, Inc.**

## Your Future Is In Sight

One look at Alcon Laboratories, Inc., a wholly-owned subsidiary of Nestlé, S.A., and you will see the \$2 billion global leader in the research, development, manufacture and marketing of the most complete line of pharmaceutical and medical device products in the ophthalmic/vision care industry. Our primary customers include ophthalmologists and optometrists around the world. Take a closer look and you will see a company where the focus is on innovation, teamwork and achievement.

### Senior Scientist - Research

This position is responsible for planning, conducting and coordinating research using biological and physiological approaches to achieve new viscoelastic products and innovative intraocular lenses. The major research involves the use of *in vitro* and *in vivo* techniques to assess the biological efficacy of new product concepts.

Qualifications include a Master's degree in Biology, Physiology or Visual Science plus five or more years applicable experience OR Doctorate degree in these fields with less than three years experience. Minimum skills include tissue culture, ocular dissection and anterior segment biology. Skills of physiological and/or ophthalmic instrumentation are additionally desirable.

Envision your future with Alcon Laboratories, Inc. We offer industry-competitive salaries and excellent benefits, including medical/life/dental/vision insurance and a very generous profit sharing trust/retirement plan. Please send your resume to: Alcon Laboratories, Inc., Placement & Development, T1-3 (AKKCSI), P.O. Box 6600, Fort Worth, TX 76115. Or fax to (817) 551-4629 and reference (AKKCSI). Or Email to: Ardis.Kvare@AlconLabs.com and reference (AKKCSI). An Equal Opportunity Employer, M/F/D/V. Pre-employment drug testing.

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LABORATORIES

*More Than Meets The Eye*

## NATIONAL CANCER INSTITUTE DIVISION OF CANCER PREVENTION ROCKVILLE, MARYLAND

**Opening Date: January 5, 1998**

**Closing date: March 2, 1998**

**Announcement Number: CA-97-2131**

### DIRECTOR, DIVISION OF CANCER PREVENTION

The Director of the Division of Cancer Prevention (DCP) will take primary responsibility for the scientific programs of the National Cancer Institute's extramural efforts in cancer prevention into the 21st Century. The Director, DCP must exert visionary leadership in establishing an integrated program in prevention that will foster fundamental scientific discovery coupled with innovative, rapid translation into effective interventions at both primary and secondary prevention levels. The Director, DCP with the Director, NCI, and the Deputy Director for Extramural Science, NCI, is responsible for the conduct and direction of the Division's total biomedical prevention effort, with particular involvement in the national and international aspects of program operations and evaluating emerging areas for special consideration.

The Director, DCP will be responsible for an extramural research effort of well over \$150 million and a staff of approximately 100. Staff are responsible for the conduct and administration of extramural programs in prevention ranging from fundamental biology through chemoprevention and agent discovery, prevention trials research; and intervention strategies such as chemoprevention, dietary risk factor modification, molecular and genetic marker identification and pathway elucidation, and modeling of process relevant to detection and prevention. These programs are implemented through extramural grants, contracts, cooperative agreements, collaborative projects, and other activities. In sum, the Director, DCP must plan a coordinated program that integrates all facets of modern biomedical cancer prevention research. This entails setting priorities; developing, fostering, and maintaining collaborations with other NIH, Federal, international, public, and private agencies engaged in relevant activities; and acting as the principal NCI spokesperson for prevention.

The Director, DCP must lead by example. The individual chosen must have an M.D. or Ph.D. and should be a recognized expert and have made significant, sustained original contributions to leading-edge efforts in some aspect of prevention as outlined above. These research qualifications must be complemented by evidence of effective managerial skills. Opportunities for continued personal direct participation in research may be provided through continued external collaborative efforts or by affiliation with an intramural unit of the NIH.

### SALARY/BENEFITS

**Senior Executive Service Appointment**—Maximum compensation of \$151,800 allowable. (The annual basic Senior Executive Salary ranges from \$99,200 to \$118,400. A one-time, lump-sum recruitment bonus of up to 25% of basic salary may be paid. In addition, a Physician Comparability Allowance of up to \$20,000 may be paid if applicable. Future compensation may also include an annual retention allowance of up to 25% of basic salary. Total compensation, however, may not exceed the maximum payable amount of \$151,800.)

**Other Appointment Mechanisms and Incentives**—May apply in individual circumstances based on experience and expertise with total salary and incentive compensation to be negotiated.

**Benefits**—Health and life insurance options, retirement, savings plans, paid holidays, and vacation and sick leave.

Applications will be accepted from all qualified persons, including PHS Commissioned Corps. Officers and individuals with SES reinstatement eligibility. The individual selected, if not presently in the SES, must serve a one-year probationary period.

Applicants must meet the qualifications requirements. Applicants will be further evaluated on the degree to which they possess the additional desirable qualifications. A copy of the requirements may be obtained by contacting **Ms. Toni McKeown** in the Human Resources Management and Consulting Branch, NCI, at **(301) 402-2812**. Applications/résumés are to be sent to the above individual at:

**National Cancer Institute (2131), Human Resources Management and Consulting Branch, 6120 Executive Boulevard, EPS/Room 550, Rockville, MD 20852-7211**

A current curriculum vitae and bibliography must accompany all applications/résumés. All applicants will receive consideration without regard to race, color, gender, national origin, age, religion, disability, or sexual orientation. NIH IS AN EQUAL OPPORTUNITY EMPLOYER.



## POSITIONS OPEN

### TERRESTRIAL VERTEBRATE ECOLOGIST

Application deadline: Review of applications will begin March 1, 1998, and will continue until the position is filled.

Tenure-track, **ASSISTANT PROFESSOR** position for fall 1998.

Salary: commensurate with experience.

Requirements: Ph.D. in biological sciences area directly related to terrestrial vertebrate ecology. Preference will be given to individuals with expertise or experience in two or more of the following areas: ornithology, mammalogy, animal behavior, and wildlife management. In addition, applicants must have the ability to teach undergraduate and graduate students and do research.

Responsibilities: Course coordination and team teaching in general ecology, plus teach other courses for undergraduate and graduate students relating to terrestrial vertebrate ecology in the applicant's area of expertise. Conduct research involving undergraduate and/or graduate students, and serve on departmental committees.

Other information: All professors at Mankato State University are periodically evaluated with regard to their teaching, scholarly, or creative achievement or research, contribution to student growth and development, evidence of continuing preparation and study, and service to the university and community.

Submit a letter of application, curriculum vitae, academic transcripts, statement of teaching and research interests, and names and telephone numbers of three professional references to:

**Dr. Bill Bessler**

Chair, Department of Biological Sciences

P.O. Box 8400 MSU 34

Mankato State University

Mankato, MN 56002-8400

Telephone: 507-389-2786

E-mail: bill\_bessler@ms1.mankato.msus.edu

### ASSISTANT PROFESSORS UNIVERSITY OF PENNSYLVANIA

The Department of Animal Biology in the School of Veterinary Medicine at the University of Pennsylvania (Penn) has two faculty positions at the **ASSISTANT PROFESSOR** level. These are tenure-track positions in a department strongly oriented to basic research within the biomedical community at Penn. Scientists with research interests in the areas of cell signaling and signal transduction are encouraged to apply, but outstanding candidates in the broad fields of cell biology, cancer cell biology, physiology, pharmacology, and molecular toxicology will be considered as well. Applicants should have a Ph.D., M.D., V.M.D., or equivalent degree along with significant postdoctoral training; be prepared to establish an independent, extramurally funded research program; and should expect to participate in teaching in the department and in University-wide graduate programs.

Interested candidates should submit a curriculum vitae, a two-page statement of research interests, and three letters of reference to: **Dr. Erika Holzbaur, Search Committee Chair, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6046.** We will begin reviewing candidates March 1, 1998. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR POSITION EAST CAROLINA UNIVERSITY SCHOOL OF MEDICINE

The Department of Pharmacology at East Carolina University School of Medicine invites applications for a tenure-track Assistant Professor position. Successful applicants are expected to have a minimum two years of postdoctoral experience, an excellent record of scholarship, and either active research support or the potential to develop and maintain an active, independent research program. Preference will be given to applicants with training and postdoctoral experience in molecular biology and the ability to apply these to the solution of pharmacological problems. Participation in the teaching of medical and graduate students is also required. Please send curriculum vitae, statement of research interests, and at least three letters of recommendation to: **Dr. Wallace R. Wooles, Chairman, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858.** Applications will be received until May 30, 1998. Federal law requires proper documentation of identity and employability at the time of employment. *East Carolina University is an Affirmative Action/Equal Opportunity Employer and invites applications from women and minority scientists.*

## POSITIONS OPEN

Opening for **ASSISTANT SCIENTIFIC DIRECTOR**. Center in connective tissue diseases is seeking an experienced Scientist/Administrator to assist in the development and implementation of research program on gene therapy for musculoskeletal diseases such as osteoporosis and various types of arthritis. Send cover letter with salary requirements and curriculum vitae to: **Jeff Meyer, P.O. Box 7210, Loma Linda, CA 92357.**

**PHYSICAL OCEANOGRAPHER.** The University of Southern Mississippi (USM) invites applications for a full-time, tenure-track faculty position in physical oceanography in the Institute of Marine Sciences, Department of Marine Science. The appointment will be made at the **ASSISTANT PROFESSOR** level. The successful applicant must hold a Ph.D. in physical oceanography or a closely related field and have a strong research interest in coastal oceanographic processes. Applicants with interests in interdisciplinary research problems are particularly encouraged to apply. The appointee is expected to maintain a strong, externally funded research program, to supervise graduate students, and to develop and teach courses at the graduate level.

The USM Department of Marine Science is a multidisciplinary academic unit (M.S. and Ph.D.) with research and teaching programs in biological, chemical, geological, and physical oceanography. The Department of Marine Science is located at NASA's John C. Stennis Space Center on the Mississippi-Louisiana border. Besides NASA research activities, the Stennis Space Center is also the home of the U.S. Naval Oceanographic Office, NOAA's National Data Buoy Center, the Naval Research Laboratory-SSC, and the Maury Oceanographic Library. Ample opportunities are available for research collaboration with Oceanographers at these federal agencies. More information about our program is available at website: <http://www.ims.usm.edu> on the Internet. The anticipated starting date is August 20, 1998.

Review of applications will begin February 25, 1998, and continue until the position is filled. Qualified applicants should mail a complete curriculum vitae, a statement of teaching and research interests, and names of four references to: **Search Committee Chair, The University of Southern Mississippi, Department of Marine Science, Building 1103, Room 102, Stennis Space Center, MS 39529.** E-mail: [ims@sunfish.st.usm.edu](mailto:ims@sunfish.st.usm.edu). *Affirmative Action/Equal Opportunity Employer/ADA Institution.*

### ASSISTANT PROFESSOR ENVIRONMENTAL HEALTH SCIENCE BACCALAUREATE PROGRAM Salisbury State University

Tenure-track position starting in fall 1998. Ph.D. in environmental health or relevant environmental field with expertise in environmental biological areas, evidence of teaching and research excellence, and fluency in English required. PE, CIH, or RS may be a plus. Responsibilities include introductory and upper-level undergraduate courses, scholarly professional activities, and sponsoring undergraduate research. Salary is competitive and commensurate with expertise. Forward curriculum vitae, research interests, all official transcripts, and three letters of reference to: **Dr. Elichia Venso, Chair, Environmental Health Faculty Search Committee, Department of Biological Sciences, Salisbury State University, Salisbury, MD 21801** by March 31, 1998. *Salisbury State University is an Equal Opportunity Employer. Qualified women, minorities, and disabled persons are encouraged to apply.*

**REPRODUCTIVE TOXICOLOGIST, Ph.D.** Applicants are invited for a basic science faculty position at the **ASSOCIATE PROFESSOR** level in the Division of Reproductive Toxicology. A highly motivated Ph.D. with demonstrated expertise in the reproductive toxicology and molecular biology is required. The applicant should have an established record of independent research and extramural grant support. Salary is commensurate with qualifications and experience. Send letter of application designating current and long-term research interests, curriculum vitae, three recent publications, and names of three references to: **Ernest L. Abel, Ph.D., Wayne State University (WSU), Department of Obstetrics and Gynecology, C. S. Mott Center for Human Growth and Development, 275 East Hancock Avenue, Detroit, MI 48201.** *WSU is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF ENVIRONMENTAL SCIENCE

Tenure-track starting in September 1998. Applied Environmental Scientist with GIS (raster and vector) experience, a quantitative background, and an interest in science education. Teaching will include courses in Master's Program in Educational Technology, undergraduate environmental science, and environmental studies programs. Ph.D. or A.B.D. with imminent completion date required.

Ramapo College, a public, barrier-free institution offering Baccalaureate and selected Master's degrees, approximately 25 miles from New York City, is committed to global education. On-site child care is available.

Since its beginning, Ramapo College has had an intercultural/international mission. Please tell us how your background, interest, and experience can contribute to this mission, as well as to the specific position for which you are applying. To request accommodations, **Telephone: 201-529-7224.** Please submit letter, curriculum vitae, and addresses and telephone numbers of three references to:

**Dr. Angela Cristini, Chair, Search Committee**

**School of Theoretical and Applied Science**

**Ramapo College of New Jersey**

**Department 54**

**505 Ramapo Valley Road**

**Mahway, NJ 07430**

"New Jersey's Public Liberal Arts College," Ramapo College is a member of the Council of Public Liberal Arts Colleges (COPLAC), a national alliance of leading liberal arts colleges in the public sector.

*Equal Employment Opportunity/Affirmative Action.*

**ASSISTANT/ASSOCIATE PROFESSOR** of plant pathology. Molecular biology of plant-bacteria interactions, Penn State. Applications are invited for this 75 percent research, 25 percent teaching, tenure-track position in the Plant Pathology Department, College of Agricultural Sciences, and affiliated with the Life Sciences Consortium. Responsible for developing a program in molecular biology of plant-bacteria interactions. Research will focus on the molecular basis of plant responses to phytopathogenic bacteria. A model system may be used but program development should include plant-bacteria systems of concern to agriculture. Individual will be responsible for graduate education in area of plant-bacteria interactions in plant pathology graduate degree program and the Life Sciences Consortium, and will participate in team-teaching an undergraduate course in molecular plant-microbe interactions in agriculture. Ph.D. in plant pathology, plant physiology, plant biology, or related discipline and postdoctoral experience required. Experience with plant-pathogen systems and expertise in plant molecular biology, and demonstrated teaching ability are also expected. Submit statement of research and teaching goals and interests; curriculum vitae; transcripts; and names, postal and e-mail addresses, and telephone numbers of three references to: **Eva J. Pell, MB-104, 211 Buckhout Laboratory, University Park, PA 16802-4507.** Review of résumés will begin March 31, 1998, and continue until position is filled. *Affirmative Action/Equal Opportunity Employer.*

### DEVELOPMENTAL BIOLOGIST

The Biology Department at The Citadel invites applications for a tenure-track **ASSISTANT PROFESSOR** position in developmental biology for the fall 1998 semester. The Citadel is a nationally recognized liberal arts college, with a military format. The student body includes 2,000 full-time undergraduate cadets and 900 part-time graduate and undergraduate evening students. Applicants should have a Ph.D. in biology and should be committed to teaching and research in an undergraduate liberal arts institution. A research program suitable for the involvement of undergraduates is desired and some internal support funds are available. Primary responsibilities will be teaching upper-level developmental courses (animal/plant) and participating in the department's introductory courses. Please send a letter of application to include a synopsis of teaching and research interests; curriculum vitae; selected reprints; and names, addresses, and telephone numbers of at least three references to: **Dr. Robert E. Baldwin, Department of Biology, The Citadel, Charleston, SC 29409.** Telephone: 803-953-7875. Application review will begin on March 13, 1998, and will continue until the appointment is made. *The Citadel is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from minorities and women.*

### CHAIR—Department of Neuroscience and Physiology

The State University of New York Health Science Center at Syracuse invites nominations and applications for the position of Chair of the Department of Neuroscience and Physiology. Formerly the Department of Physiology, the newly recognized department has an outstanding reputation for its research and teaching programs. The Chair will be responsible for building a strong departmental neuroscience focus that complements the present interdisciplinary institutional focus in the neurosciences. The department has institutional teaching responsibilities in Medical Physiology and Neuroscience, the Ph.D. program in Physiology, and also participates in the interdisciplinary Ph.D. programs in Neuroscience. Candidates should have exceptional leadership skills, the ability to recruit and develop an outstanding faculty in neuroscience and physiology, a nationally recognized well-funded research program in the area of neurophysiology, and a record of accomplishment in teaching and administrative service in a medical school environment. The department is scheduled to add four state-funded tenure-track assistant professors with appropriate startup packages and newly renovated laboratories for the Chair and new faculty. This position represents an excellent opportunity to build a thriving neuroscience and physiology program at a Health Science Center committed to excellence in research and education. Please submit a curriculum vitae and the names of four references to: **Dr. John J. Lucas, Vice Provost for Research, c/o Office of the Provost, SUNY Health Science Center at Syracuse, 750 East Adams St., Syracuse, NY 13210.** Review of applications will begin April 1, 1998, and will continue until the position is filled. We will begin interviews shortly thereafter and expect to select the Chair by this summer. *An AA/EEO/ADA Employer, committed to excellence through diversity.*

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College of Medicine

### POSTDOCTORAL FELLOW HENRY HOOD M.D. RESEARCH PROGRAM

Postdoc position available in the Laboratory of Dr. Stephen A. Osmani to study the regulation of the eukaryotic cell cycle using *Aspergillus nidulans* as a model system (see EMBO J 15 3599-3610, 1996; EMBO J 16 182-192, 1997; J. Biol. Chem. 272 33384-33393, 1997 for recent publications). The successful candidate will have experience in genetics or molecular biology, but a good publication record is most important. The Henry Hood Research program is housed in the Weis Center for Research in Danville, PA. Danville is in a safe, semi-rural area with convenient access to the major metropolitan areas of New York and Baltimore. The Center provides modern, fully equipped research facilities for 89 faculty and research personnel. Interested individuals should send their curriculum vitae and the names of three references to: **Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program (SAO), Sigfried and Janet Weis Center for Research, 100 North Academy Avenue, Dept. SCI, Danville, PA 17822-2601.** AA/EOE

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## BIOINFORMATICS COMPUTATIONAL SCIENTIST

In this role, you will perform software research and development for Bioinformatics as well as evaluate, champion and implement new technology to meet scientific needs. You will be operating in a UNIX, Windows and Web environment with object-oriented software development. You will integrate relational data, Web technology, commercial and proprietary software. Additional duties include developing fundamental new contributions to Bioinformatics methods, collaborating with molecular biologists, computational chemists and lab scientists and acting as a liaison with academia and vendors. Qualifications include a Ph.D. in Biology, Chemistry or related field, with at least 4 years experience in biology/molecular biology, technology planning, system analysis, and scientific computer application design and development. 2 years project leadership experience along with excellent interpersonal and oral/written communication skills are necessary.

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## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSORS PHARMACOLOGY AND MOLECULAR BIOLOGY

The Department of Pharmacology and Molecular Biology at Finch University of Health Sciences/The Chicago Medical School has recently appointed a new Chair and will undergo substantial expansion. Tenure-track positions are available at the Assistant or Associate Professor level, with the possibility of appointment as Professor for an outstanding candidate. The positions require a doctoral degree and postdoctoral experience. Candidates with research programs using modern cellular and molecular approaches in any area of pharmacology are encouraged to apply. Applicants for Assistant Professor are expected to develop an independent, extramurally funded research program. Applicants for Associate Professor must have a current extramurally funded research program. All applicants must have a commitment to excellence in medical and graduate education. Modern laboratory space and competitive salary and start-up packages are available. The Chicago Medical School is located in the picturesque far northern Lake County suburbs of Chicago with access to a rich diversity of cultural, educational, and recreational resources. Applicants should send curriculum vitae, a letter providing research interests and plans, and the names of at least three references to: **Dr. Francis J. White, Search Committee, Department of Neuroscience, Finch University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.**

*Finch University of Health Sciences/The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.*

### RESEARCH SCIENTIST ASSOCIATE OR FULL PROFESSOR RESEARCH

The Department of Neurosurgery, affiliated with Brown University and Rhode Island Hospital, is seeking to recruit a Research Scientist with substantial experience in conducting laboratory research in molecular and cellular biology to direct a new center for brain survival. Experience and expertise in the following areas is desired: cellular growth and survival; and brain tumor biology. A current NIH grant and a demonstrated research track record as a P.I. is required. The incumbent is also expected to participate as a preceptor of students, residents, and postdoctorates in research at Brown University and the Rhode Island Hospital.

The successful candidate must qualify for appointment as Associate or Full Professor (Research), Department of Clinical Neurosciences, Brown University School of Medicine.

Applications must be received by May 15, 1998. Please send a curriculum vitae to:

**Mel H. Epstein, M.D.,  
Chairman, Search Committee  
Brown University  
Department of Clinical Neurosciences  
Medical Office Center  
2 Dudley Street, Suite 505  
Providence, RI 02905**

*Rhode Island Hospital is an Equal Opportunity/Affirmative Action Employer and encourages applications from protected and minority groups.*

### ASSOCIATE/ASSISTANT PROFESSOR

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and health care, is seeking an individual for a tenure-track position as Associate or Assistant Professor of anatomy and neurobiology. Candidates must have expertise in contemporary cellular and molecular neurobiology. Only applicants with the Ph.D., M.D., or equivalent degree will be considered. Associate Professor candidates must have an established, externally funded program; Assistant Professor candidates must have at least two years of postdoctoral experience and high potential to develop and maintain an independent, productive research program. Participation in the teaching of medical and graduate students is requisite. A competitive salary, laboratory space, and start-up funds are available. Send curriculum vitae, a statement of research plans, copies of recent publications, and the names and addresses of at least three references to: **Dr. P. A. Young, Chairman, Department of Anatomy and Neurobiology, Saint Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104.** *Saint Louis University is an Affirmative Action/Equal Opportunity Employer, and encourages nominations of and applications of women and minorities.*

## POSITIONS OPEN

### ENDOWED CHAIR IN NUTRITION SCIENCE

Nominations and applications are sought for a distinguished Scientist to be appointed to the Dorothy Foehr Huck Chair in Nutrition. We wish to attract an internationally recognized scholar in the field of nutrition. Nominees and applicants must have an earned doctorate in nutrition or a closely related field and an active research program in molecular or cell biology, metabolism, immunology, biochemistry, or neurobiology with a nutrition emphasis.

The successful candidate for this senior faculty, tenured position is expected to have an outstanding scholarly record, a distinguished record of research, teaching, and extramural funding, and evidence of outstanding leadership abilities. An attractive and competitive salary and start-up package is available.

Applications accompanied by a curriculum vitae, a one-page statement of research interests, and the names of three professional references should be forwarded to: **Dr. John L. Beard, Chair of Search Committee, Box 1001, Nutrition Department, The Pennsylvania State University, S-126 Henderson Building South, University Park, PA 16802.** Screening of applicants will begin in mid-March and will continue until the position is filled. More information can be obtained from Dr. John Beard at the above address or at Telephone: 814-863-2917; FAX: 814-863-6103; e-mail: [its@psu.edu](mailto:its@psu.edu).

*The Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### UNIVERSITY OF WASHINGTON CHILDREN'S HOSPITAL AND REGIONAL MEDICAL CENTER

Seeks a **RESEARCH ASSISTANT/RESEARCH ASSOCIATE PROFESSOR** for the Department of Urology, Division of Pediatric Urology. Candidate should have a Ph.D. or M.D. and have completed a two-year Postdoctoral Fellowship in the field of developmental biology or molecular biology. The major focus of the lab has been defining normal development of the bladder as it relates to extracellular matrix changes. The neonatal bladder has set program of development that can be perturbed by forces such as obstruction or dysfunction. Without altering these forces, irreversible change can occur. Factors mediating development are being sought. In addition, the person in this position will be involved in research-related teaching of urology Residents. Salary and benefits commensurate with experience. Interested applicants should submit a cover letter and curriculum vitae by March 31, 1998, to:

**Michael E. Mitchell, M.D.**

**Children's Hospital and Regional Medical Center  
P.O. Box 5371/CH-81**

**Seattle, WA 98105**

**E-mail: [mmitch@chmc.org](mailto:mmitch@chmc.org)**

*The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

The Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois, Urbana-Champaign is seeking applications for a full-time annual tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the area of veterinary gross anatomy. The successful candidate will teach gross anatomy in the veterinary medicine curriculum and will be expected to develop a research program and participate in graduate instruction.

Candidates should possess the Ph.D. degree or equivalent. Preference will be given to those who also hold the D.V.M. degree or equivalent. The applicant must use English fluently. Salary commensurate with qualifications. To ensure full consideration, applications should be received by April 30, 1998. Starting date on or after July 21, 1998.

Send curriculum vitae and three letters of reference to:

**Dr. K. R. Holmes  
Chair, Anatomy Search Committee  
Department of Veterinary Biosciences  
University of Illinois  
2001 South Lincoln Avenue  
Urbana, IL 61802  
Telephone: 217-333-2506  
FAX: 217-244-1652  
E-mail: [krholmes@uiuc.edu](mailto:krholmes@uiuc.edu)**

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

## POSITIONS OPEN

### UNIVERSITY OF PENNSYLVANIA INSTITUTE FOR HUMAN GENE THERAPY Department of Molecular and Cellular Engineering

We invite applications for a tenure-track position at the **ASSISTANT PROFESSOR** level (or more **SENIOR LEVEL** for particularly qualified candidates) from talented individuals with a research focus in immune functions of epithelial tissues, including microbial-epithelial interactions, mechanisms involved in innate immunity, and immune responses of epithelial cells in disease; or in epithelial stem cell biology, particularly using molecular approaches and animal models of development, differentiation, and function in epithelial tissues. Research related to lung physiology/pathology, especially within the context of cystic fibrosis, is particularly desirable.

Candidates should have M.D. and/or Ph.D. degree and several years of productive postdoctoral experience. Please send a letter of application, curriculum vitae, one- to two-page statement of research interests and future directions, and names of three references by March 15, to:

**Dr. J. Kevin Foskett, Chair  
Search Committee  
University of Pennsylvania  
School of Medicine  
Room 313B Stellar-Chance Laboratories  
422 Curie Boulevard  
Philadelphia, PA 19104-6100**

*Equal Opportunity/Affirmative Action Employer. We encourage minority and women candidates.*

### UNIVERSITY OF FLORIDA

Seeks **ASSISTANT/ASSOCIATE PROFESSOR**. The Department of Medicine, Geriatric Research, Education, and Clinical Center (GRECC), VA Medical Center invites applications for a tenure-track position. The candidate should be an M.D., Board-certified in internal medicine with an interest in geriatrics and diabetes or obesity. The position will have a strong emphasis on research and the candidate must have demonstrated successful peer review. The successful candidate will join the GRECC faculty of four M.D.'s and four Ph.D.'s. Salary and benefits will be commensurate with education and experience. Application deadline: March 31, 1998. Anticipated start date: July 1, 1998. For consideration send curriculum vitae to:

**David T. Lowenthal, M.D., Ph.D.  
Director, Geriatric Research, Education, and  
Clinical Center  
VA Medical Center GRECC/182  
1601 S.W. Archer Road  
Gainesville, FL 32608-1197**

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

Positions at the level of **ASSISTANT PROFESSOR** in pathology. The University of Virginia seeks outstanding candidates with M.D. or M.D.-Ph.D. degrees to fill a number of positions at the level of Assistant Professor. Applications will be expected to establish independent research programs and to compete for extramural research funding. Applicants will also be expected to contribute to one of a number of clinical subspecialty areas in anatomic and clinical pathology, including renal pathology, neuropathology, cytology, autopsy pathology, hematopathology, microbiology, and molecular diagnostics. Joint appointments in Ph.D.-degree-granting departments are available. Please send a letter of interest, curriculum vitae, and the names of three references to: **Steven Gonias, M.D., Ph.D., Professor and Vice Chair, Department of Pathology, University of Virginia, Box 214, Charlottesville, VA 22908.** *The University of Virginia is an Affirmative Action/Equal Opportunity Employer.*

**HERPETOLOGIST.** Louisiana State University Museum of Natural Science invites applications for the anticipated tenure-track position of **ASSISTANT CURATOR/ADJUNCT ASSISTANT PROFESSOR** to begin January 1999. Ph.D. in biology, zoology, or related discipline and curatorial experience in a research collection of amphibians and reptiles are required. Duties include museum-oriented research in herpetology (specific area and approach are open), curating a collection of nearly 80,000 specimens, teaching, and directing graduate students. Submit statement of research and teaching interests, curriculum vitae, and names and addresses of three references to: **Dr. Douglas Rossman, Museum of Natural Science, 119 Foster Hall, Louisiana State University, Baton Rouge, LA 70803.** Review of applications will begin in early April 1998. *Equal Opportunity/Affirmative Action Employer.*

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For immediate consideration, forward a cover letter and resume detailing your work experience to: **Abbott Laboratories, Job Code 98-PAH-0129, 1401 Sheridan Road, Dept. 39Y, Bldg. A1, North Chicago, IL 60064-4000. Fax: 847-938-1567.** An EOE, we are as committed to employee diversity as we are to our diverse array of products and services.

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# nature medicine

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Please submit a CV (with names of three references), a concise letter outlining your credentials, and a 500 word News & Views-style article on a recent, exciting and newsworthy development in any area of biomedical research, to: The Editor, *Nature Medicine*; 345 Park Avenue South, New York, NY 10010-1707 (Fax 212 683 5751; e-mail [medicine@natureny.com](mailto:medicine@natureny.com)) to arrive as soon as possible and no later than 2nd March 1998.



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## POSITIONS OPEN

### PLANT PATHOLOGIST DEPARTMENT OF PLANT PATHOLOGY UNIVERSITY OF MINNESOTA

Tenure-track, research and teaching position at the **ASSISTANT PROFESSOR** level to study the major soybean diseases of stems and roots. The successful applicant will advise graduate students, and after the second year teach at the undergraduate and/or graduate level. Minimum qualifications: Ph.D. (by date of appointment) in plant pathology or related discipline with emphasis in disease management, and evidence of publications and interest in teaching. Desired qualifications: experience in soybean disease management, microbial ecology, research productivity, desire and ability to work with undergraduate and graduate students, superior written and oral communication skills, and willingness to do collaborative research. Send curriculum vitae; transcripts; written statement of research, teaching, and career goals; and have three letters of recommendation postmarked by April 30, 1998, to:

**Dr. Robert A. Blanchette, Chair**  
Soybean Pathologist Search Committee  
495 Borlaug Hall  
University of Minnesota  
St. Paul, MN 55108

*The University of Minnesota is an Equal Opportunity Educator and Employer.*

### PHYSIOLOGY FACULTY POSITION

Tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Clinical Research/Biomedical Sciences of the Ohio University College of Osteopathic Medicine. Primary responsibilities are to teach medical physiology in a clinically oriented curriculum and to develop a viable research program. Candidates must be well-trained scientists interested in teaching clinically relevant, organ system-level physiology in an innovative, interdisciplinary atmosphere. The Ph.D. or equivalent is required and postdoctoral training or equivalent experience is highly desirable. The appointment is to begin in the fall of 1998. The 11-month salary will be commensurate with experience, and is accompanied by an excellent benefit package. Review of applications will begin March 15, 1998, but applications may be tendered until the position is filled. Submit a statement of career interests, a curriculum vitae, representative reprints, and three (3) letters of recommendation to: **John N. Howell, Ph.D., Search Committee Chair, Ohio University College of Osteopathic Medicine, 326 Grosvenor Hall, Athens, OH 45701. E-mail: howell@ohiou.edu.**

*Ohio University is an Affirmative Action/Equal Opportunity Employer.*

### TWO POSITIONS COGNITIVE NEUROSCIENCE AND BEHAVIORAL NEUROSCIENCE

In connection with the launch of a new neuroscience initiative, the Princeton University Department of Psychology anticipates making two appointments at the **ASSISTANT PROFESSOR** level, to begin in September, 1998, or February, 1999. One will be in cognitive neuroscience, for applicants with expertise in human brain imaging. The other will be in behavioral neuroscience, for applicants with expertise in mammalian research. Applicants for both positions should have an active program of research and be prepared to teach at both undergraduate and graduate levels. Please send a curriculum vitae, a one-page research description, and three letters of recommendation to: **The Neuroscience Search Committee, Department of Psychology, Princeton University, Princeton, NJ 08544-1010** by April 15, 1998. *Princeton is an Equal Opportunity/Affirmative Action Employer.*

California University of Pennsylvania seeks an **ASSISTANT/ASSOCIATE PROFESSOR** to teach in the wildlife biology program in the Biological and Environmental Sciences Department. Requirements: Ph.D. in wildlife biology or related field; publications in refereed scientific journals; teaching experience in population dynamics and modeling, quantitative ecology, wildlife management, experimental design and analysis, ornithology, and wildlife issues (must be field ambulatory for necessary field trips in these courses); strong commitment to productive research programs involving undergraduate and graduate students. Deadline for full consideration is February 23, 1998. Additional information is available at the university website: [www.cup.edu](http://www.cup.edu).

## POSITIONS OPEN

Tenure-track faculty member in medical oncology Stanford University School of Medicine. We are searching for a Physician Scientist at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Division of Oncology, Department of Medicine. Candidates should have an M.D. or M.D.-Ph.D., be trained in the subspecialty of medical oncology, and be accomplished in research. They should be prepared to establish an independent laboratory program in cancer research. Applicants with expertise in molecular and cell biology, immunology, or genetics and in the translation of scientific methods and discoveries to problems in clinical oncology are especially encouraged. Salary support, laboratory space, and start-up funds are available for this position. Successful candidates will have demonstrated their ability to obtain peer-reviewed research funding. Participation in clinical care and in teaching will be expected. Please send curriculum vitae, a statement of career plans, and three names of references to: **Ronald Levy, M.D., Chief, Division of Oncology, Stanford University School of Medicine, Stanford University Medical Center M211, Stanford, CA 94305-5306.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

### BIOLOGY DEPARTMENT ASSISTANT PROFESSOR REVISED Framingham State College

The Biology Department at Framingham State College seeks applicants for a tenure-track position as Assistant Professor for fall 1998. The successful applicant will be a broadly trained Biologist with expertise in neurobiology. Responsibilities will include teaching general biology courses for majors and non-majors, an introductory human biology course, advanced course in the candidate's specialty, and supervision of undergraduate research. Minimum qualifications include a Ph.D. in biology and teaching experience. Ability to supervise student teachers (middle and high school) preferred.

Please send curriculum vitae, statement of research and teaching interests, and the names of three references by February 20, 1998, to: **Dr. Richard Beckwith, Chair, Biology Department, Framingham State College, P.O. Box 9101, Framingham, MA 01701-9101.**

*Framingham State College is an Affirmative Action/Equal Opportunity Employer. Applications are especially invited and encouraged from women, people of color, and persons with disability.*

### VERTEBRATE PHYSIOLOGY ASSISTANT PROFESSOR: TENURE-TRACK

Primary teaching responsibility: upper-level physiology course, senior/graduate-level immunology, graduate-level comparative physiology, and additionally do some teaching in anatomy and physiology. Ph.D. in discipline required. Must be willing to participate in Master's degree program and develop research program. Send résumé, names of three references, and statement of teaching and research interests to: **M. E. Warren, Department of Biology, P.O. Box 10037, Beaumont, TX 77710.**

*Lamar University is an Affirmative Action/Equal Opportunity Employer, and a member of the Texas State University System.*

**ASSISTANT PROFESSOR.** The Biology Department of Rutgers University-Camden seeks a broadly trained Geneticist for a tenure-track position beginning September 1998. Ph.D. required and postdoctoral experience preferred. This position entails teaching undergraduate and graduate courses in genetics and participation in introductory biology. Please send curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. H. Lee, Biology Department, Rutgers University, Camden, NJ 08102.** Review of completed applications will begin March 16, 1998, and continue until the position is filled. *Rutgers is an Equal Opportunity/Affirmative Action Employer.*

Biology, **ASSISTANT PROFESSOR.** Teach scanning electron microscopy, plant physiology, and one semester of general biology. The successful candidate is expected to develop courses in his/her specialty and establish an independent research program. Requirements: Ph.D. with specialty in plant biotechnology. Send letter of application, curriculum vitae, representative publications, separate statements of research interests and teaching philosophy, and three letters of recommendation to: **Biology Search, Affirmative Action Office, HAB 501, 75 South Main Street, Suite 9, New Paltz, NY 12561.** Review begins March 15, 1998. *Affirmative Action/Equal Opportunity Employer/ADA Employer.*

## POSITIONS OPEN

### AUDITORY BASIC SCIENCE RESEARCH SCIENTIST THE DEPARTMENT OF OTOLARYNGOLOGY- HEAD AND NECK SURGERY University of California, Irvine

The Department of Otolaryngology-Head and Neck Surgery at University of California, Irvine, in conjunction with the Department of Anatomy and Neurobiology, invites applications for a full-time tenure-track position in the area of auditory physiology or auditory neuroanatomy. The position is supported by a University of California FTE in the Department of Otolaryngology-Head and Neck Surgery.

While the Departmental Chair, **Roger Crumley, M.D.**, is primarily seeking candidates with an established research focus in the auditory system, applicants with other otolaryngology-related basic science interests will be considered. Both Departments provide a very supportive environment for research and teaching, and there are many excellent opportunities for campus-wide interdisciplinary research collaboration. In addition there is a new basic neuroscience facility to complement UC Irvine's already strong background and faculty in neuroscience and related disciplines.

Minimum requirements include a Ph.D. with a documented research program. The successful candidate will be expected to participate in certain teaching and clinical programs of the Department. Applicants should send curriculum vitae, a one- to two-page summary of research interests and plans, and the names and addresses of three individuals who act as references to:

**Richard T. Robertson**  
Professor and Chair  
Department of Anatomy and Neurobiology  
College of Medicine  
University of California, Irvine  
Irvine, CA 92697-1275

The Child Psychiatry Branch is seeking candidates for a tenure-track research position in the neurobiological basis of childhood psychiatric disorders. Candidates should have a Ph.D. degree and postdoctoral training in cognitive neuroscience, neuropsychology, or developmental psychology with an interest in brain imaging, or a M.D. degree with training in neurology, pediatrics, pediatric neurology, or child psychiatry, together with expertise in structural and/or functional brain imaging. The candidate is expected to develop an independent research program and will be provided with resources to conduct the research. The research will take place in a multidisciplinary setting. Populations currently under study in the Branch include healthy children and adolescents as well as those with schizophrenia, attention deficit hyperactivity disorder, and obsessive compulsive disorder. Send a curriculum vitae, statement of research interests, and have three reference letters sent by April 30, 1998, to: **Chair, Search Committee, Child Psychiatry Branch, National Institute of Mental Health, 10 Center Drive, MSC 1600, Building 10, Room 3N202, Bethesda, MD 20892-1600.**

*NIH is an Equal Opportunity Employer.*

University of Florida seeks six (6) **CLINICAL ASSISTANT PROFESSORS** for the Department of Medicine, Division of Internal Medicine. M.D. Degree, B.E./B.C. in internal medicine. The responsibilities will consist of treating patients on an outpatient and inpatient basis. Teaching medical students and residents coincidently with the care of those patients. No research responsibilities. Salary and benefits commensurate with experience. Recruiting deadline February 26, 1998. Anticipated starting date July 1, 1998. Please submit curriculum vitae and other information to: **Aida Vega, M.D., Associate Professor, Division of Internal Medicine, Box 100277 JHMHC, Gainesville, FL 32610.** *An Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT, ASSOCIATE, or FULL PROFESSORS.** Department of Cellular Biology and Anatomy. The Department is recruiting for two tenure-track faculty positions. Candidates should have at least two years of experience teaching medical students in neuroanatomy/neuroscience, gross anatomy, embryology, and/or histology and cell biology, and should have an active research program, preferably with funding. Submit curriculum vitae to: **Dale E. Bockman, Ph.D., Department of Cellular Biology and Anatomy, Medical College of Georgia, Augusta, GA 30912-2000.** *The Medical College of Georgia is an Affirmative Action/Equal Opportunity Educational Institution.*

## HEAD, DEPARTMENT OF ANATOMY (Cell Biology and Anatomy)

The University of Calgary Faculty of Medicine invites applications and nominations for the position of Head of the Department of Anatomy (Cell Biology and Anatomy). The position offers a unique opportunity to define the future scientific direction of the department, and to study cell and developmental biology in a collegial environment. The department comprises 13 full-time and 7 adjunct members with federally-funded research activities in neurobiology and cell biology. Further details are available at the department's web site: <http://www.ucalgary.ca/~rhawkes/index2.html>

We are seeking an outstanding academic leader with a PhD or equivalent degree, who would qualify for appointment at the rank of professor. An internationally recognized research program and strong publication record are essential, as well as demonstrated administrative ability.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

The University of Calgary is committed to Employment Equity.

Applications and nominations, including a curriculum vitae, a statement of research interests and academic goals, and the names of three referees, should be forwarded by March 31, 1998, to:

D. Grant Gall, M.D.  
Dean, Faculty of Medicine  
The University of Calgary  
3330 Hospital Drive N.W.  
Calgary, Alberta, Canada T2N 4N1



[www.ucalgary.ca](http://www.ucalgary.ca)

## ASSOCIATE DIRECTOR COMPARATIVE MEDICINE

National Center for Research Resources  
National Institutes of Health

The National Center for Research Resources (NCRR) is seeking applicants for the position of Associate Director Comparative Medicine, National Center for Research Resources. This position is located in Bethesda, Maryland, and is a permanent full-time position with a salary range of \$103,897 to \$123,100 per annum commensurate with qualifications. Physicians may be eligible for Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year.

A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position. A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

The Associate Director for Comparative Medicine, NCRR, manages a broad research and resources area related to Laboratory Animal Sciences, AIDS Animal Models, Regional Primate Research Centers, and Biological Models and Materials Resources. These programs provide support for sophisticated mammalian and non-mammalian resources, genetic repositories for animals, both vertebrate and invertebrate, microorganisms and cells. The program also supports post-doctoral training and career development for veterinarians. The ADCM has a continuing responsibility to match the Comparative Medicine area's research and resource scope and content with the needs of the biomedical research community, especially for investigators supported by other NIH components. This responsibility involves a multifaceted portfolio of sponsored activities which includes Regional Primate Research Centers, mammalian and non-mammalian model development, special types of research animal colony development and support, national repositories for induced mutants for rodents and other organisms as well as nonhuman primate breeding and research projects. The ADCM must provide the national scientific leadership for the planning, formulation, program review, development and evaluation of all activities which are encompassed by this area. Applicants for this Senior Executive Service position must have a Doctor of Veterinary Medicine or a Ph.D. in one of the health sciences (or equivalent combination of experience and training). Send applications to: Ms. Patheria Wiggins, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 496-1524. Deadline for applications is March 15, 1998.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

The NIH is an Equal Opportunity Employer

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- Employers exhibiting at the Career Fairs may contact you before the event to arrange a personal meeting at our Career Fair. Employers are expecting to see you at the fair, so only post your résumé if you plan on attending.

## POSITIONS OPEN

Applications are invited for a full-time, continuing appointment in the Department of Pathology, Northwestern University Medical School, Chicago. We are recruiting a Clinician-Scientist at the level of **ASSISTANT/ASSOCIATE PROFESSOR**, tenure-track, who will establish a vigorous independent and interactive research program in molecular virology. This position will also involve teaching, graduate training, and participation in clinical virology/microbiology diagnostic work, with 80 percent protected time for basic research. Candidates must be Board-certified/eligible in clinical pathology. Preference will be given to individuals with proven capacity to attract extramural funding. Salary and rank will be commensurate with experience. This position will begin on or about July 1, 1998. Please submit your curriculum vitae, a statement of areas of interest, expertise, and strengths, and the names of three professional referees no later than March 1, 1998, to: **Janardan K. Reddy, M.D., Professor and Chairman, Department of Pathology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.**

*Northwestern University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.*

## MEDICAL OFFICER

Applications are being sought for a **CLINICIAN-SCIENTIST** with a background in infectious diseases and HIV immunology to work in a position within the Immunology Branch (J. S. McDougal, M.D., Chief), Division of AIDS, STD, and TB Laboratory Research, National Centers for Infectious Disease, Centers for Disease Control and Prevention, Atlanta, Georgia. The individual should be Board-certified/eligible in infectious diseases, have extensive experience in clinical HIV/AIDS care, and be competent in basic techniques as they apply to HIV immunology. Specifically, the candidate should be proficient at HIV culture techniques, viral load measurements, flow cytometric immunophenotyping using three- or four-color flow cytometry, and gel electrophoresis. The individual should also have experience in clinical trials and statistical analysis. M.D. or M.D.-Ph.D. required. Salary range from \$70,315 to \$88,396 depending on qualifications and experience. Submit curriculum vitae to: **Ms. Janie Oddy, Centers for Disease Control and Prevention, Personnel Management Office, 4770 Buford Highway N.E., Mailstop K15, Atlanta, GA 30341-3724.** CDC is an Equal Opportunity Employer and provides for a smoke-free work environment.

## RESEARCH AT MAYO

The Center for Basic Research in Digestive Disease at the Mayo Clinic in Rochester, Minnesota has an opportunity available for a **RESEARCH TECHNICIAN** specializing in electron microscopy.

Qualified candidate will possess a B.S. in the biological or biochemical sciences and have extensive training in electron microscopy and light microscopy. Familiarity with tissue culture techniques and computer imaging is useful, but not essential.

Interested candidates should send cover letter and résumé referencing job posting #98-291.sci to: **Mayo Medical Center, Kaine A. Kerkhoff, Human Resources Staffing Center, OE-1 200 1st Street S.W., Rochester, MN 55905. FAX: 507-284-1445; e-mail: kerkhoff.kaine@mayo.edu; website: www.mayo.edu.**

*Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.*

## ASSISTANT RESEARCH SCIENTIST

Full-time, non-tenure-track position at the University of Georgia in a comparative program on LPS-induced synthesis of inflammatory mediators by mononuclear cells. Duties: design, implement, and evaluate experiments; collaborate on proposals; and publish findings. Requirements: Ph.D. in biochemistry, immunology, or molecular biology, and Ph.D. or post-Ph.D. experience with LPS. Salary is commensurate with qualifications and experience. Deadline: March 31. Starting date: July 1. Send curriculum vitae, letter of intent, and the names and addresses of three references to: **Dr. James N. Moore, College of Veterinary Medicine, University of Georgia, Athens, GA 30602. Telephone: 706-542-6326; e-mail: jmoore@calc.vet.uga.edu.**

## POSITIONS OPEN

### MICROBIOLOGISTS/RESEARCH VETERINARY MEDICAL OFFICERS USDA, AGRICULTURAL RESEARCH SERVICE National Animal Disease Center Ames, Iowa

Since its establishment in 1961, the Center has been responsible for investigating animal diseases through state-of-the-art research. Currently over 60 scientists form interdisciplinary teams with expertise in the areas of biochemistry, immunology, physiology, virology, bacteriology, pathology, molecular biology, and veterinary medicine. Together, these Investigators study approximately 35 infectious and metabolic diseases of economic importance to U.S. agriculture. Research facilities include fully equipped, modern laboratories and animal biocontainment facilities. Full base funding is provided.

**Zoonotic Diseases Research Unit:** Microbiologist/Veterinary Medical Officer to conduct basic and applied research on the pathology, immunology, and molecular biology of *Mycobacterium paratuberculosis*. Requires knowledge of immunology, protein chemistry, biochemistry, cell biology, pathology, molecular biology, animal production, and animal diseases. For further information on the research program and/or position, contact: **Dr. Carole Bolin, Telephone: 515-239-8325.**

**Enteric Diseases and Food Safety Research Unit:** Microbiologist/Veterinary Medical Officer to conduct basic and applied research to define the role of *Salmonella typhimurium* DT104 in diseases of livestock, and to develop diagnostic tests and control strategies to control human foodborne disease attributable to *Salmonella* spp. Requires knowledge of immunology, epidemiology, biochemistry, and molecular biology. For further information on the research program and/or position, contact: **Dr. Steve Bolin, Telephone: 515-239-8201.**

*U.S. citizenship required.* Applicants must have a D.V.M. or B.S. in microbiology or related field of study, plus directly related Ph.D. and/or professional research experience. Salary commensurate with experience (\$46,254 to \$84,495). Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and investment plan (401k type plan) in addition to Federal retirement plan. For information on application procedures contact: **Carolyn Kehrl, Telephone: 515-239-8277.**

*USDA/ARS is an Equal Opportunity Employer.*

### STAFF SCIENTIST POSITIONS IN IMMUNOHISTOCHEMISTRY AND MOLECULAR BIOLOGY

The Research Department of the Shriners Hospital for Children seeks a Immunohistochemist and a Molecular Biologist to work in a shared facility that assists ongoing research programs in cartilage, bone, and tendon.

The Immunohistochemist position requires experience in (1) fixation, embedding, sectioning, and staining of tissues, (2) cryo-embedding, cryostat sectioning, and immunostaining of tissues and cells, (3) operation of research microscopes for light, phase contrast, and fluorescence microscopy as well as photomicrography.

The Molecular Biologist position requires experience in (1) isolation and purification of RNA from tissues and cells, (2) mRNA quantitation using Northern blot and PCR, (3) isolation of cDNA clones from RNA using RT-PCR, (4) DNA sequencing, restriction enzyme digestion, subcloning, and plasmid preparation.

B.A./B.S. required, M.S./Ph.D. preferred. Full-time positions. Excellent salary and benefits package. Please forward a letter describing your experience and a curriculum vitae to: **Shriners Hospital for Children, Human Resources, 12502 North Pine Drive, Tampa, FL 33612.** Equal Opportunity Employer. Alcohol/drug-free workplace.

**BIOLOGY.** One-semester position in the Biology Department at Whitman College beginning August 1998. Teach physiology lecture and laboratory plus a biology elective to be determined. Whitman College has a strong commitment to excellence in undergraduate teaching, research, and student advising. Send curriculum vitae, three letters of recommendation, transcripts, and statement of teaching and research interests to: **Dr. Paul Yancey, Chair of the Search Committee, Biology Department, 345 Boyer, Whitman College, Walla Walla, WA 99362. Telephone: 509-527-5498; FAX: 509-527-5904; e-mail: yancey@whitman.edu.** Closing date: February 23, 1998. Further information about Whitman College, website: <http://www.whitman.edu>. Equal Opportunity Employer.

## POSITIONS OPEN

**DIRECTOR, SCIENTIFIC COMMUNICATIONS.** Responsible for evaluating scientific literature and advising on communicating smoking and health issues for a major tobacco corporation. Will act as scientific spokesperson on smoking and health issues and be responsible for developing manager training programs to help them communicate smoking and health issues. Qualified applicants must have a Ph.D. in pharmacology, chemistry, or related field and three years of related occupational experience in tobacco industry. Three years of related occupational experience must include the following: three years of experience in the analysis of information from a wide range of scientific disciplines; three years of experience dealing with the scientific issues relating to smoking and health; two years of communications/public affairs experience; two years of experience in translating complex scientific concepts into nontechnical language; and two years of experience in running issues-based media training courses. Hours: 8:00 a.m. to 4:45 p.m. Salary \$120,000.00 per year. *Only persons authorized to work permanently in the United States need apply.* Please forward résumé to: **Ms. Jane Hosley, 0368104, Kentucky Department for Employment Services, 275 East Main Street 2-W, Frankfort, KY 40621.** An Equal Opportunity Employer. Résumés must refer to: **JO#KY0368104.**

### SCIENTIST/SENIOR SCIENTIST LIPOPROTEIN BIOLOGY

Position with AtheroGenics, Inc., a rapidly growing biopharmaceutical company located in suburban Atlanta, engaged in the discovery and development of products for diagnosis and treatment of atherosclerosis and cancer. Prefer Ph.D. with one to four years (Scientist) or five to seven years (Senior Scientist) of postdoctoral experience in biochemistry, cellular and molecular biology of plasma lipoproteins and apolipoproteins.

We offer an innovative and exciting scientific environment with competitive salaries and benefits. FAX or send résumé to: **AtheroGenics, Human Resources, 3065 Northwoods Circle, Norcross, GA 30071. FAX: 770-447-1886.**

**PHARMACOLOGIST.** Position available July 1, 1998, in Department of Oral Biology. Ph.D. (D.M.D. or equivalent desirable) and demonstrated research and teaching experience required. Duties include teaching dental students, dental residents, and graduate students in an integrated oral biology curriculum, and conducting independent research. Salary and rank commensurate with experience. Please send curriculum vitae and names and addresses of three references to: **Dr. Gretchen B. Caughman, Department of Oral Biology, AD1424, School of Dentistry, Medical College of Georgia, Augusta, GA 30912-1126 by April 15, 1998. PO#J1951.** Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL FELLOWSHIP.** Ph.D. from U.S. university to participate in research on the application of fusion toxin therapy of resistant malignancies. Individual will perform human normal and leukemic semi-solid progenitor colony assays, cytotoxicity assays, immunoblots, flow cytometry assays, Scatchard binding studies, CD34+ selections, routine tissue culture, DNA and protein techniques for recombinant bacterial fusion toxins, ELISAs, and immunohistochemistry. Contact: **E. P. Tagge, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-3861; FAX: 803-792-3858; e-mail: taggeep@musc.edu.**

**BIOLOGIST.** Biologist for small liberal arts college with nationally recognized marine science program. Teaching responsibilities include courses in human biology and mammalian anatomy and histology, courses for non-majors, and neurobiology. Postdoctoral experience preferred. Dedication to teaching undergraduates and involving them in an active research program. Send curriculum vitae to: **Keith Serafy, Natural Science Division, Southampton College, 239 Montauk Highway, Southampton, NY 11968.** Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** for a Medicinal Chemist is available in a multidisciplinary drug-discovery program. Background in synthetic porphyrin chemistry is desired. Experience in molecular biological techniques will be a definite plus. Please send résumé and names of referees to: **Prof. Rahul Ray, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. E-mail: bapi@bu.edu.**

**UCR/UCLA PROGRAM  
IN BIOMEDICAL SCIENCES**  
**DIVISION OF BIOMEDICAL SCIENCES**  
**UNIVERSITY OF CALIFORNIA, RIVERSIDE**  
**GROUP-BUILDING OPPORTUNITIES**  
**IN THE MOLECULAR BASIS OF DISEASE**

The faculty of the Division of Biomedical Sciences offer the opportunity for senior faculty to build a group and junior faculty to join a multidisciplinary group focused on the molecular basis of disease. Areas of special interest include cardiovascular disease, cancer biology, receptor and signal transduction-based disease, and ion-transport diseases, but applications are encouraged from all highly productive individuals who currently have substantial extramural funding. Currently, four full-time ladder-rank faculty positions are available to support fully or partially up to six M.D.- or Ph.D.-level scientists commensurate with experience. We anticipate filling these positions with a mixture of senior- and junior-level faculty where the number of senior faculty appointments will not exceed two. Space and initial complement funds are available and will be commensurate with past productivity and future needs.

The Division of Biomedical Sciences administers a joint accelerated 7-year B.S./M.D. program with the University of California at Los Angeles. The primary teaching duties of the faculty at UCR are equivalent to the first two years of medical school instruction. Faculty in the Division are expected to maintain a vigorous research program and to contribute to medical and graduate teaching programs. Teaching opportunities currently exist in immunology, histology, virology, gross anatomy, and pathology. All academic faculty appointments must meet the criteria of the University of California for rank and carry a requirement for research, teaching, and service. Initial review of applications will begin in February 1998, and the positions will remain open until filled.

Interested investigators should submit an application including a curriculum vitae; a description of research history and future directions; a history and the status of current funding, and the names of three references. Please include your e-mail address and fax number to: **Craig V. Byus, Ph.D., Chairman, Search Committee, Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121. Telephone: (909) 787-4535, Fax: (909) 787-5504; e-mail: craig.byus@ucr.edu.**

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

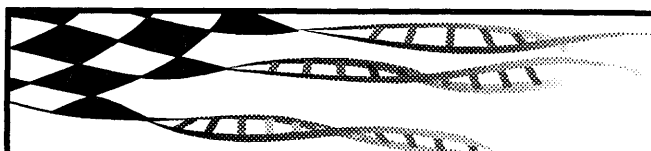
**TOP TECHNOLOGY TRANSFER  
POSITION AVAILABLE  
AT THE  
NATIONAL CANCER INSTITUTE**

The National Cancer Institute (NCI) is seeking an outstanding, dynamic, and experienced innovator to lead us into the next century. This individual will be responsible for overseeing the NCI technology transfer office and related activities with a focus on developing partnerships and novel mechanism to support these partnerships. This position provides an opportunity to work with cancer researchers unrivaled throughout the world!

The NCI has a large patent/licensing portfolio resulting in one of the highest levels of royalty incomes of all federal agencies. NCI also has an extremely active technology development program in government-industry-academic partnerships which span basic, applied, pre-clinical, and clinical research areas. Recent changes in NCI leadership have focused on technology development and transfer as a key initiative for the upcoming years.

To qualify, candidates must have a degree in an academic field related to the health sciences or allied sciences appropriate to the work of the position, and have at least one year of specialized experience. For further information on this position, please contact **Ms. Bonnie Breeden on (301) 402-4375**, to obtain a copy of the application package. **Applicants must respond by 2/17/98.**

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## **HEALTH SCIENTIST ADMINISTRATOR** (BIOLOGICAL SCIENCES) GS-601-12/13/14

The Office of Scientific Review of the National Institute of General Medical Sciences, National Institutes of Health in Bethesda, MD is seeking a Health Scientist Administrator (Biological Sciences) to perform a variety of management functions associated with the scientific and technical merit review of research and research training support grant award applications concerned with basic biomedical, clinical, and behavioral sciences, and with the techniques and methods used in modern biomedical research. The incumbent will work closely with the Minority Biomedical Research Support Program to coordinate the evaluations of applications from institutions seeking support from this program. The incumbent provides guidance on the Institute's program guidelines and initiatives and on policies and procedures of the NIH peer review system. The incumbent participates in site visits, attends meetings of study sections and review committees, prepares summary statements of review group findings and recommendations, and attends Council meetings to provide information concerning the review of applications.

Applicants interested in applying must be U.S. Citizens and have met all requirements for a Ph.D. (or equivalent doctoral degree) at an accredited college or university, or have completed a full 4-year course of study in an accredited college or university, leading to a bachelor's or higher degree, with major study in an academic field of the health or pertinent sciences which has been applied and utilized by the applicant in health or health-related research; or an equivalent combination of graduate study and related research experience. In addition, you must have experience working independently in planning, organizing, and conducting biomedical, behavioral health or health-related research; serving effectively in research program administration in these fields; and have acquired an understanding of the history, interests, internal dynamics and relationships of organizations where health research is conducted.

Applicants may apply by submitting a resume, OF-612, SF-171, or other written format, AND a description of your competence in the specific knowledge and abilities (KSAs) required for this position. You will be evaluated against each KSA, thus you are strongly encouraged to obtain the application package and complete qualification requirements. **Contact: National Institute of General Medical Sciences, Personnel Office; 45 Center Drive - MSC 6200, Bethesda, MD 20892-6200, (301)594-2749; TDD (301)402-6327. Applications must be postmarked by the closing date of March 16, 1998. NIH is an equal opportunity employer.**



## POSITIONS OPEN

### RESEARCH SUPPORT OPPORTUNITIES MEMORIAL SLOAN-KETTERING CANCER CENTER

Number One Cancer Center for the Fifth  
Consecutive Year

Memorial Sloan-Kettering Cancer Center, ranked by U.S. News & World Report as first in the nation for the fifth consecutive year, has the following research opportunities. Join our progressive team, where excellence and extraordinary service are crucial to providing the best cancer care anywhere.

#### SENIOR RESEARCH TECHNICIAN

In this position you will execute experiments; analyze data (using the tools of protein chemistry, immunology, cell biology, and molecular biology) to study/identify the molecular components involved in the regulation of molecular transport of human tumor cells. Job Code #98036R.

#### RESEARCH TECHNICIAN

In this position you will provide support to the laboratory in the completion of assigned experiments; assist in molecular biology experiments; maintenance/inventory of lab and equipment. Requires two to five years of related research experience. PCR, tissue culture, and animal handling experience preferred. Job Code #98037R.

Both positions require a minimum of a Bachelor's degree and/or Master's degree in biology or other appropriate life sciences.

We offer a competitive salary and comprehensive benefits, including 100 percent tuition reimbursement. Please forward your résumé and salary requirements, indicating Job Code, to: **M. Ko, Employment Department, Memorial Sloan-Kettering Cancer Center, 633 Third Avenue, 5th Floor, New York, NY 10017. E-mail (in ASCII text): brownna@mskcc.org. Equal Opportunity Employer/Affirmative Action.**

#### TRANSGENIC SCIENTISTS

The National Institute on Aging, NIH located on the Johns Hopkins University, Bayview Campus in Baltimore, Maryland is seeking to fill a contract position with a murine embryo microinjection expert (pronuclear and blastocyst). Candidates at all levels (B.S., M.S., Ph.D.) must have a minimum of one year of experience. Compensation will be commensurate with experience. All interested candidates should FAX résumé/curriculum vitae including three professional references to: **Recruiter, Bionetics, FAX: 301-963-8534.** No telephone inquiries.

*Employability in United States and preemployment drug screen required. Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.*

**RESEARCH ASSOCIATE** in pulmonary pharmacology available for recent Ph.D. in pharmacology or physiology. Project related to pharmacology of purine receptors and the involvement of second messenger systems in airway smooth muscle and epithelial cells. Salary commensurate with experience. Experience in pulmonary physiology preferred. Send curriculum vitae and three letters of recommendation to: **Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Telephone: 919-816-2736. Affirmative Action/Equal Employment Opportunity. Accommodates individuals with disability. Applicants must comply with the Immigration Reform and Control Act.**

#### CYTOGENETIC TECHNOLOGISTS

Genzyme Genetics in Santa Fe, New Mexico seeks experienced Cytogenetic Technologists to help with volume growth. Qualified candidates will be NCA-certified or eligible and have two or more years of experience. Genzyme Genetics offers competitive compensation and a comprehensive benefits program. Send your confidential résumé and salary history to: **Diane Marbourg, 2000 Vivigen Way, Santa Fe, NM 87505. FAX: 505-438-2277. Equal Opportunity Employer.**

**RESEARCH SCIENTIST** at UCLA. T-cell activation and signal transduction. Skills required are molecular biology, signal transduction, and transcriptional activation. Please send curriculum vitae, statement of research interests, names and telephone numbers of three references to: **Dr. André Nel, M.D., Ph.D., Jonsson Cancer Center, UCLA School of Medicine, 52-175 CHS, 10833 Le Conte Avenue, Los Angeles, CA 90095-1680. FAX: 310-206-8107; e-mail: anel@med1.medsch.ucla.edu. Equal Opportunity Employer.**

## POSITIONS OPEN



### UNITED STATES DEPARTMENT OF AGRICULTURE PLANT GENE EXPRESSION CENTER Albany, California

The Agricultural Research Service (ARS) is accepting applications for the position of **CENTER DIRECTOR** for the Plant Gene Expression Center (PGE) in Albany, California. PGE is a consortium of ARS and the University of California, Berkeley (UCB). The ideal candidate will have a distinguished professional record with substantial experience in research. Evidence of creativity and demonstrated leadership and management skills are also required. The applicant should be capable of stimulating collaboration and interaction across a wide spectrum of plant biology research areas. A Ph.D. in plant molecular biology or related discipline is highly desirable. The applicant's research program should address an agriculturally important problem, using biochemical, molecular, or genetic approaches, and should complement existing PGE programs. The applicant will also be considered for appointment as an Adjunct Professor by the Department of Plant and Microbial Biology at UCB. Salary for the GS-15-level position (\$81,272 to \$105,658) will be based on qualifications and experience. *Must be a U.S. citizen.* For information on research program and/or position contact: **Dr. Antoinette A. Betschart, USDA-ARS-PWA, 800 Buchanan Street, Albany, CA 94710. Telephone: 510-559-6060; e-mail: abetschart@ars.usda.gov; FAX: 510-559-5779.** For general information or application procedures and forms contact: **Jan Lewis, USDA-ARS-PWA, Personnel Office, 800 Buchanan Street, Albany, CA 94710. Telephone: 510-559-6014.** Application forms must be mailed directly to: **USDA-ARS, Human Resources, 6305 Ivy Lane, Room 224, Greenbelt, MD 20770-1435** and be postmarked by March 9, 1998.

*The U.S. Department of Agriculture is an Equal Opportunity Employer.*

### RESEARCH TRAINING IN NUTRITIONAL AND INTERVENTIONAL GERONTOLOGY

**PREDOCTORAL and POSTDOCTORAL FELLOWSHIPS** are available at the University of Texas Health Science Center at San Antonio, an internationally recognized center for aging research. Supported by the National Institute of Aging, the training program focuses on transgenic, hormonal, and nutritional probes of the aging processes. A major focus is on development and testing of transgenic lines that modulate expression of genes that may play a role in aging—including those regulating glucose and bone metabolism, hormone action, antioxidants, DNA repair, and cardiovascular function. More information on specific research programs and mentors is available at website: <http://age.uthscsa.edu/research/AgeTrain.html>. *Traineeships are limited to U.S. citizens and permanent residents.* Send a letter detailing experience and research interests, curriculum vitae, and three letters of recommendation to: **James Nelson, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756. E-mail: nelsonj@uthscsa.edu.**

*The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Opportunity Employer.*

### PART-TIME MICROSCOPE SALES/SCIENTISTS

Manufacturer of a new, high-resolution optical 3-D microscope seeks Microscopists with discretionary time interested in supplementing income through equipment sales and application development. Ideal candidate will continue to perform research in a discipline benefiting from 3-D analysis. Compensation based on ability to develop and publish new applications for technology and to assist in sales of microscopes to other scientists.

Send résumé to:

**InGen Corporation  
235 Montgomery Street  
Suite 300  
San Francisco, CA 94104**

## POSITIONS OPEN

### RESEARCH POSITIONS THE SUPER SHRIMP GROUP

#### DIRECTOR OF RESEARCH

Immediate opening for a dynamic, career-oriented scientist to manage the research and development program of the Super Shrimp Group. The Department of Research is involved in the development of molecular and immunological approaches to prevention and treatment of infectious diseases of marine organisms. The Director will have responsibilities for the management of both the intramural and extramural collaborative research programs. The successful candidate will have demonstrated expertise in molecular biology, immunology, virology, and bacteriology. Competitive salary commensurate with experience.

#### POSTDOCTORAL RESEARCH ASSOCIATE

We are seeking a Ph.D.-level Molecular Biologist with strong postdoctoral training in virology and/or bacteriology to study infectious complications in marine aquaculture. The successful candidate will be familiar with molecular cloning, cell culture, PCR, sequencing, plasmid construction and transfection. The initial appointment is for two years with the potential for renewal and advancement. Salary commensurate with experience.

The Super Shrimp Group is a private, multinational corporation operating one of the largest marine aquaculture facilities in the Americas. Research laboratory facilities are located in San Diego, California.

Interested applicants should send curriculum vitae and three letters of reference to:

**The Super Shrimp Group  
P.O. Box 5678  
Yuma, AZ 85366  
Telephone: 520-314-4309  
FAX: 520-314-4311**

**E-mail: mrosenblum@supershrimp.com**

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### FULL-TIME NEUROSURGERY RESEARCH POSITION

The Section of Neurosurgery in the Department of Surgery at the University of Nebraska Medical Center has a full-time academic position immediately available in the Research Lab at the Instructor level or rank dependent on qualifications. Position includes focus on neuropharmacology and biochemical mechanisms that result after neuronal injury in *in vivo* preparation and will investigate the role of changes in excitotoxins release in spinal cord injury. Applicant must have a Ph.D. with expertise in microdialysis, HPLC, immunohistochemistry, and neuropharmacology experience. Send curriculum vitae description of research interest, and three reference letters to: **Dr. Leibrock, Section of Neurosurgery, University of Nebraska Medical Center, 600 South 42 Street, Omaha, NE 68198-2035. FAX: 402-559-7779.** *The University of Nebraska is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

#### RESEARCH ASSOCIATE

A Research Associate position is available to investigate regulation of  $\alpha_1$ -adrenergic receptors. Applicants with a strong background in molecular biology and transcriptional regulation are requested to send their curriculum vitae with three letters of recommendation to: **Debra Schwinn, M.D., Department of Anesthesiology, P.O. Box 3094, Duke University Medical Center, Durham, NC 27710. FAX: 919-681-4776; e-mail: schwinn001@mc.duke.edu.**

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Both positions require a PhD or MD, 3+ years experience and excellent interpersonal, verbal and written communication skills. Experience in industry and tissue engineering are desirable. Ability to work simultaneously on multiple projects is essential.

For consideration send cover letter, resume and salary history to: LifeCell Corporation, Dept. LEB, 3606 Research Forest Dr., The Woodlands, TX 77381. EOE M/F/H/V

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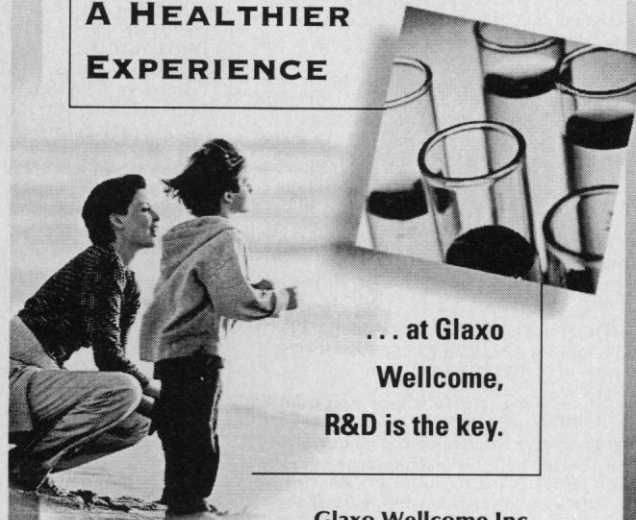
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### SCIENTIST/SR. SCIENTIST Pharmacology

We seek an experienced Cartilage/Bone Pathologist to join our Osteoarthritis and Osteoporosis Drug Discovery Team. This position requires an MS or Ph.D. in Biology or Pathology with a minimum of 2 years experience in cartilage and bone research. Proficiency in all aspects of routine histology and hard tissue histomorphometry is required, as is familiarity with computer-based image manipulation and analysis. Working knowledge of cartilage model systems is highly desired. A good teamwork attitude, self-motivation and excellent oral/written communication skills are essential.

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## POSITIONS OPEN

The National Center for Genome Resources (NCGR) located in Santa Fe, New Mexico is currently seeking a **VICE PRESIDENT and CHIEF SCIENTIFIC OFFICER**. The NCGR focuses on creating and managing a public genome sequence database service as well as advisory and educational programs that are highly visible nationwide.

Reporting to the President and Chief Executive Officer, the Chief Scientific Officer will help formulate, articulate, and implement NCGR's expanded scientific strategy.

The required background will include a Ph.D. in molecular biology, genetics, or related field. A broad understanding of gene expression, molecular diagnostics, and biochemical pathways is desired, and a comprehensive knowledge of genomics and DNA sequencing is essential.

For more information, please contact: **Ralph Migdal, Russell Reynolds Associates, Inc.**, Telephone: 415-352-3323; e-mail: rmigdal@russreyn.com; FAX: 415-781-7690.

### PREDOCTORAL AND POSTDOCTORAL POSITIONS IN AN INTERDISCIPLINARY PROGRAM

Positions on an NIH-funded Interdisciplinary Training Grant are available to individuals interested in intracellular signaling, gene transcription, mitogenesis, lipid metabolism, and several other biological processes involved in a variety of cardiovascular diseases. Visit our website: <http://www.utm.edu/pharmacology/training> for details. Applicants must be U.S. citizens or permanent residents. Please send résumé with names of three references to: **Dr. Tarun B. Patel, Department of Pharmacology, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163**. E-mail: tpatel@physiol.utm.edu; FAX: 901-448-7300. University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer. Minorities and women are especially encouraged to apply.

Two **POSTDOCTORAL FELLOW** positions to study the involvement of the beta adrenergic receptor-linked adenylyl cyclase/phosphodiesterase signal transduction system in the mediation of antidepressant activity. Position for a Molecular Pharmacologist requires experience in molecular biology. Position for a Behavioral Pharmacologist requires experience with operant behavioral analyses. Send curriculum vitae, names of references, and description of previous research to: **James M. O'Donnell, Ph.D., Department of Pharmacology, Louisiana State University School of Medicine, Shreveport, LA 71130**. FAX: 318-675-4757; e-mail: jodonn@lsu.mc.edu. Louisiana State University Medical Center is an Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** in molecular neurobiology available immediately. Position is in an active group utilizing newly developed system in which ES cells are differentiated into neurons *in vitro*. Applicant must have excellent molecular biology skills including plasmid and vector construction. Focus will be on developing new models of neural cell transplantation, response to injury, and basic neuronal and glial cell biology. Send curriculum vitae to: **Dr. David Gottlieb, Department of Anatomy and Neurobiology, Box 8108, 660 South Euclid Avenue, St. Louis, MO 63110**. E-mail: gottlieb@thalamus.wustl.edu.

**POSTDOCTORAL SCIENTIST** to research the molecular regulation of alpha2-adrenergic receptor subtypes and their role in initiating vascular disease. The successful applicant will work in state-of-the-art facilities at the new Heart and Lung Institute. Applicants with a strong background in molecular and cell biology should send their curriculum vitae and names of three references to: **Nicholas A. Flavahan, Ph.D., Associate Director, Heart and Lung Institute, The Ohio State University, Medical Research Facility, Room 524, 420 West 12th Avenue, Columbus, OH 43210-1214**. E-mail: flavahan.1@medctr.osu.edu.

**POSTDOCTORAL POSITION**. Transcriptional regulation in myocardial cells. Experienced and productive individual wanted to study cytokine regulation of transcription in cardiac muscle (see: *JCI* 95:2555-2564; *JBC* 271:21134-21141). Relevant expertise in cloning and DNA transfection essential, DNA:protein and protein:protein interactions desirable. Letter, curriculum vitae, references, and a brief summary of goals to: **Carlin S. Long, M.D., San Francisco VA Medical Center, 111C8, 4150 Clement Street, San Francisco, CA 94121**. E-mail: ckmbmd@itsa.ucsf.edu.

## POSITIONS OPEN

### TWO POSTDOCTORAL POSITIONS Neuropharmacology/Pharmacokinetics and Electrophysiology of Glutamate Receptors

Bearsden Bio. Inc. (Aston, Pennsylvania) has two immediate openings for a **PHARMACOLOGIST-PHARMACOKINETICIST** and **ELECTROPHYSIOLOGIST** at the postdoctoral level to work at the Laboratory of Neurosciences, NIA, NIH, Bethesda, Maryland. The first selected candidate will determine pharmacokinetics and metabolism of lead glutamatergic and related compounds in rodent and other animal models. The second candidate will examine electrophysiological and neuroplastic effects of these compounds. Studies will involve patch clamp techniques in cultured cells and *in vitro* hippocampal slices from genetic animal models of neurodevelopmental and degenerative diseases. The compounds are proposed to have beneficial effects in the peripheral or central nervous systems on neuropathic pain, vascular disorders, Alzheimer's disease, or Down syndrome.

Applicants must have: (1) training and experience in neuropharmacology and pharmacokinetics, in radiotracer techniques (including measurement of fluxes, receptor binding, and autoradiography), small animal surgery, and bioanalytic methodology; or (2) training and experience in electrophysiology, imaging, and cell culture techniques. The positions offer a stimulating multidisciplinary research environment involving collaboration between industry and the NIH.

Candidates should send a curriculum vitae, bibliography, brief summary of research interests, and names of three references to: **Dr. Zygmunt Galdzicki, Laboratory of Neurosciences, National Institute on Aging, Building 10, Room 6C103, Bethesda, MD 20892**. FAX: 301-402-0074; e-mail: zyga@helix.nih.gov. Equal Opportunity Employer.

**NEUROPHYSIOLOGIST (POSTDOCTORAL/RESEARCH ASSOCIATE/INSTRUCTOR)**. Systems Neurophysiologist sought to join multidisciplinary neuroscience laboratory characterizing pathways, functions, and genetics of novel brainstem networks involved in central regulation of autonomic function, cerebral blood flow, neuroprotection, and immune processes. Postdoctoral experience in mammalian extra/intracellular electrophysiology essential. Background/experience in pharmacology, neurochemistry, molecular genetics, and/or neuroanatomy a plus. Contact: **D. J. Reis, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street, New York, NY 10021**. E-mail: djreis@mail.med.cornell.edu. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

**POSTDOCTORAL POSITION** to investigate the molecular mechanism(s) regulating the expression of the rat hepatic sulfotransferase multigene family is available April 1, 1998. Experience with cell culture, molecular cloning, transient transfection, and gene expression techniques required. Send letter, curriculum vitae, and three references to: **M. Runge-Morris, M.D., Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Detroit, MI 48201**. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply. Wayne State University—people working together to provide quality service.

**POSTDOCTORAL POSITION** available immediately to study modulation of myogenic tone in cerebral and coronary arteries by K channels and calcium, using patch clamping and other appropriate techniques. Applicants must have experience in electrophysiology, preferably in vascular smooth muscle. Send a description of research experience, curriculum vitae, and names of three references to: **Dr. Blair Robertson, University of South Alabama, Biomedical Sciences Department, UCOM 6000, Mobile, AL 36688**. E-mail: broberts@jaguar1.usouthal.edu. Affirmative Action/Equal Employment Opportunity/Minorities/Females/Disabled.

**POSTDOCTORAL POSITION** available immediately to study biological electron transfer using new ruthenium photoexcitation technique (*Biochemistry* 35:15, 107). Systems under study include cytochrome oxidase, cytochrome bcl, and cytochrome c peroxidase. Send curriculum vitae and references to: **Dr. Frank Millett, Department of Chemistry and Biochemistry, University of Arkansas, Fayetteville, AR 72701**. FAX: 501-575-4049; e-mail: millett@comp.uark.edu. Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIP

A Postdoctoral Fellowship is available to study the role of inflammation in carcinogenesis, including studies on the effects of oxidant stress, and regulation of enzymes responsible for repair of DNA damage induced by free radicals. Creative, self-motivated candidates with experience in culture of both primary epithelial cells and tumor cell lines; animal studies; as well as a strong background in molecular biology including DNA and RNA isolation, cloning, and sequencing are encouraged to apply. Interested applicants should send a curriculum vitae, an introductory letter with description of research interests and experience, and contact information for three references to: **Fredika M. Robertson, Ph.D., The Ohio State University, 302B CCC, 410 West 12th Avenue, Columbus, OH 43210**. E-mail: robertson.48@osu.edu; FAX: 614-292-0643.

### POSTDOCTORAL POSITION LIPID METABOLISM

Postdoctoral Research position available immediately to work in a large research group to study lipid and carbohydrate metabolism in healthy and obese individuals. Previous experience in performing clinical research studies is not necessary. Minimum requirements: M.D. or Ph.D. in biological sciences. Please mail or FAX your curriculum vitae, names of three references, and a brief description of your research experience to: **Dr. Labros S. Sidossis, Metabolism Unit, SBI, University of Texas Medical Branch, 815 Market Street, Galveston, TX 77550**. FAX: 409-770-6626. An Equal Opportunity Employer.

### POSTDOCTORAL POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

Two Postdoctoral Fellowships available immediately to study (1) targeted genome modification via triple helix formation; or (2) genetic instability in repair-deficient transgenic mice. Please send curriculum vitae and references to: **Peter M. Glazer, M.D., Ph.D., Yale University School of Medicine, Boyer Center for Molecular Medicine, 295 Congress Avenue, P.O. Box 9812, New Haven, CT 06538-0812**. FAX: 203-737-2630. Yale University is an Equal Opportunity; however, one of these positions requires U.S. citizenship or permanent resident status. In response, please state citizenship status.

### POSTDOCTORAL

A Postdoctoral position is available to study the regulation of phosphoinositide-specific phospholipase C isozymes in mammalian cells. Relevant experience in enzymology and molecular biology is required. Applicants should have a Ph.D. and not more than five years of postdoctoral experience. Submit curriculum vitae and references to: **Dr. Sue Goo Rhee, Ph.D., Chief, Laboratory of Cell Signaling, NHLBI, 3 Center Drive, MSC 320, Bethesda, MD 20892-0320**. FAX: 301-480-0357.

**POSTDOCTORAL RESEARCH ASSOCIATE** positions are available, one immediate and the other in late 1998, to study the mode of action of antipsychotic drugs and substances of abuse. Applicants should hold Ph.D. or equivalent with strong neuroscience background. Experience with intracellular and/or patch-clamp recordings in *in vitro* brain slice preparations is desirable. Send curriculum vitae and three references to: **Rex Y. Wang, Ph.D., SUNY at Stony Brook, Department of Psychiatry, Putnam Hall, Stony Brook, NY 11794-8790**. FAX: 516-632-9433; e-mail: rex.wang@sunysb.edu.

**POSTDOCTORAL FELLOWSHIP** position is available to study the mechanisms of transcriptional regulation of cellular genes by steroid and thyroid hormone receptors. Candidates must have a Ph.D. with a strong background in molecular biology. Send curriculum vitae and names and addresses of three references to: **Dr. Milan Bagchi, Population Council, The Rockefeller University, 1230 York Avenue, New York, NY 10021**.

**POSTDOCTORAL FELLOW**. NIH-funded position immediately available to study gene regulation in eosinophils. Experience in cell and molecular biology essential. Please send curriculum vitae, names of three references, and research statement to: **Dr. J. Malter, A4/204, University of Wisconsin Hospital and Clinics, 600 Highland Avenue, Madison, WI 53792**. E-mail: js.malter@uwmsg.hosp.wisc.edu.

The B-cell Development section of the Laboratory of Immunology at the Gerontology Research Center (NIA) is currently accepting applications for an Intramural Research and Training Award (IRTA). Candidates should have a background in molecular immunology with some training in basic recombinant DNA technology (e.g., Southern and northern blotting, polymerase chain reaction (PCR), reverse transcription-PCR, cloning, sequencing, western blotting, etc.). The B-cell Development section is currently investigating mechanisms defining B-cell repertoire, particularly molecular determinants of positive and negative selection using transgenic mice as a model system. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. U.S. citizenship or permanent residency is required.

Interested individuals should submit:

- 1.) A letter detailing their career goals and interests; 2.) a current CV; 3.) and official copy of their undergraduate and graduate school transcripts; and 4.) Three letters of reference to:

James Kenny, Ph.D., 4940 Eastern Avenue, GRC/NIA, Baltimore, MD 21224; kennyj@grc.nia.nih.gov

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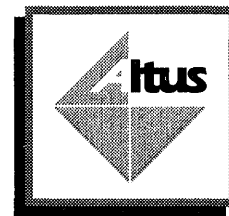
### ■ Protein Chemist/Biochemist

We are seeking individuals at the BS/MS level to join an existing research team, dedicated to the purification, crystallization, biochemical characterization and chemical modification of proteins. Successful candidates will have a minimum of three years experience with a diverse array of modern methods of protein isolation and characterization, and molecular biology techniques. Familiarity with protein crystallization procedures would be a distinct advantage. **Job Code: PCB**

### ■ Industrial Postdoctoral Research Associate

We are seeking several recent Ph.D. graduates with hands-on experience in Protein Chemistry, Biochemistry or Organic Chemistry who are interested in a 1 - 2 year postdoctoral position in the design and development of novel products based on CLPC technology. A strong background in protein chemistry and a desire in applying these skills to therapeutic proteins is required. Strong written and oral communication skills and interpersonal skills are a must. Publication and presentation of the results of your research will be strongly encouraged. **Job Code: PRA**

Please submit your resume and three names from whom references may be solicited, referencing Job Code, to: **Altus Biologics Incorporated, c/o: Recruiting Manager, 40 Allston Street, Cambridge, MA 02139; Fax: (617) 499-2480. Please visit our Web site at: [www.altus.com](http://www.altus.com).** Altus is an Equal Opportunity Employer.



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#### Staff Scientist - Biochemistry

Be responsible for the isolation and characterization of endogenous ligands for orphan receptors. Requires a Ph.D., two years post-doctoral training, and proven expertise in the purification of trace level bioactive substances from native sources. Successful applicant will be conversant in a broad spectrum of purification and analytical methods appropriate for the study of peptidergic or small molecule transmitters. **(Dept-246)**

#### Senior Research Associate - Pharmacology

Play a key role in the implementation of computer automated data analysis for our drug discovery program. Involves data analysis, database management and performance of pharmacological/biochemical assays. Requires BS or MS in Computer and/or Biological Science; at least 3 years of experience with receptor binding and similar biochemical techniques; and programming experience with Visual Basic and MS Access. Oracle database skills would be a plus. **(Dept-247)**

#### Research Associate - Molecular Pharmacology

Develop binding and signal transduction assays for cloned G-protein coupled receptors in heterologous expression systems. Requires a team player with strong communication skills; a BS or MS degree; and at least 2 years of experience in receptor characterization, binding and/or second messenger assays. **(Dept-248)**

Your rewards will include a competitive salary and an attractive benefits package, including a 401(k) and stock option plan. For immediate consideration, please forward your resume indicating appropriate Dept Code listed above, to: **Synaptic Pharmaceutical Corporation, Dept., 215 College Road, Paramus, NJ 07652. an EOE M/F/D/V**



## POSITIONS OPEN

**SENIOR POSTDOCTORAL FELLOWSHIP** opening for Ph.D. in molecular biology and virology to work on gene therapy project for skeletal repair. Experience in viral vectors for mammalian cell expression desirable. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and the names of three references to: Ms. C. Farrell, P.O. Box 7210, Loma Linda, CA 92354.

The Section on Behavioral Pediatrics of the National Institute of Mental Health is recruiting B.C./B.E. Pediatricians/Pediatric Neurologist for a **RESEARCH FELLOWSHIP**. The major focus of the clinical research program is to examine the relationship between streptococcal infections and pediatric neuropsychiatric disorders, such as Tourette disorder and obsessive compulsive disorder. Studies are also ongoing on Sydenham's chorea and a wide variety of behavior disorders. Research Fellow will have comprehensive training in all aspects of clinical research, including descriptive studies, clinical trials, and neuroimaging studies (both structural and functional). Each Fellow is encouraged to design their own research portfolio, including collaborations with a variety of basic science disciplines. The Research Fellowship is two to five years in duration. One position is available immediately, a second in June 1998. Applications will be accepted until both positions are filled. For further information, or to make application, please contact: Dr. Susan E. Swedo, Acting Scientific Director, National Institute of Mental Health. E-mail: swedos@irp.nimh.nih.gov; Telephone: 301-496-3501.

NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in molecular biology available immediately to investigate the molecular structure and expression of novel prohormone processing proteases. These specific proteases are involved in the cellular production of peptide hormones and neurotransmitters. Studies involve multiple approaches in molecular cloning, and expression of recombinant proteases and protease inhibitors in *E. coli* and mammalian cells. Experience in molecular biology is required. Expertise in cell biology and biochemistry is desirable. The Ph.D. degree in molecular biology, biochemistry, or related discipline is required. Please send curriculum vitae, reprints, and names of three references to: Dr. Vivian Hook, Department of Medicine, University of California, San Diego, 9500 Gilman Drive #0822, La Jolla, CA 92093-0822.

### TWO POSTDOCTORAL POSITIONS BRIGHAM AND WOMEN'S HOSPITAL HARVARD MEDICAL SCHOOL

Postdoctoral positions for M.D. or Ph.D. are available in the laboratories of Dr. Richard M. Mortensen to study G-protein/RGS signaling using molecular techniques including knockout technology, and Dr. Steven Graves to study the molecular regulation of the sodium pump in human and animal tissues in the setting of hypertension. Send curriculum vitae and names of three references to the specific Laboratory Head at: 221 Longwood Avenue, Boston, MA 02115. E-mail: mortense@bustoff.bwh.harvard.edu, swgraves@bics.bwh.harvard.edu.

**POSTDOCTORAL POSITION** available to study (1) mechanisms that promote apoptosis induced by signaling through tumor necrosis factor/nerve growth factor receptors; (2) mechanisms by which vascular endothelial cell growth factor promotes angiogenesis and the progression of cancer. Experience in molecular biology/biochemistry desirable. Send curriculum vitae and names and telephone/FAX numbers of three references to: Dr. David B. Donner, Walther Oncology Center, Indiana University School of Medicine, 1044 West Walnut Street, Indianapolis, IN 46202. FAX: 317-274-7592; e-mail: ddonner@iupui.edu.

**POSTDOCTORAL POSITION** to study the role of glycosphingolipids in epithelial cell biology, especially cell motility and adhesion. Research involves glycosyltransferase gene modulation and generation of transgenic mice. Experience in molecular biology and biochemistry required, recent Ph.D. or M.D. NIH-funded. Apply by March 15, 1998. Send curriculum vitae and letters from three references to: Dr. Amy Paller, Division of Dermatology #107, Children's Memorial Hospital, 2300 Children's Plaza, Chicago, IL 60614. FAX: 773-880-3025; e-mail: apaller@nwu.edu.

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY NATIONAL CANCER INSTITUTE

Immediate openings exist for full-time Postdoctoral Fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumors in murine models and in humans.

We seek candidates with experience in cellular immunology as well as molecular biology. Ongoing projects include the study of immune tolerance to tumor-associated differentiation antigens, the development of synthetic and recombinant anticancer vaccines, and the cloning of new tumor associated antigens.

Send cover letter, résumé, and statement of research interests to:

Steven A. Rosenberg, M.D., Ph.D.  
Chief of Surgery  
National Cancer Institute  
Building 10, Room 2B42  
Bethesda, MD 20892-1502  
Telephone: 301-496-4164

*Selection for these positions will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.*

### POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL

Positions available to study the viral and host mechanisms in HIV-1 and HTLV-1 infection and strategies for the gene therapy of AIDS and adult T-cell leukemia (ATL). Projects include the development of intracellular antibodies (*Gene Therapy* 4:11, 1997) for AIDS (*J. Virol.* 71:6486, 1997; *Mol. Med.* 2:96, 1997) and ATL (*Virology* 237:209, 1997) and targetable non-viral (*Gene Therapy* 2:732, 1995) and viral vectors (in press). Recent Ph.D. and experience in molecular biology are required. Send curriculum vitae, brief description of research experience, and names of three references to: Dr. Wayne Marasco, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-3889. An Equal Opportunity Employer.

### TWO POSTDOCTORAL POSITIONS

Position One is to investigate the structural basis for heparin potentiation of antithrombin III anticoagulant activity. Position Two is to evaluate the use of neutrophil resistant serpins in the treatment of inflammatory pathologies. Biochemistry, molecular biology, cell biology, and/or animal model experience required. Send curriculum vitae and names of three references to: Susan C. Bock, Ph.D., University of Utah, Departments of Medicine and Bioengineering, Pulmonary Division—Wintrobe 739, 50 North Medical Drive, Salt Lake City, UT 84132. E-mail: susan.bock@m.cc.utah.edu.

**POSTDOCTORAL POSITION** available immediately to investigate the molecular mechanism of transforming growth factor  $\beta$  signaling. Investigation will focus on genetic selection and functional complementation of TGF $\beta$  signaling mutants. Research into the mechanism of TGF $\beta$ -induced apoptosis will also be of focus. Applicants should be experienced in molecular biology. Send curriculum vitae and names of three references to: Dr. Philip H. Howe, Department of Cell Biology (NC-1), Lerner Research Institute, Cleveland Clinic Foundation, Cleveland, OH 44195.

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

**POSTDOCTORAL POSITION** available to study ionic signaling in smooth muscle. Experience in patch clamping and/or confocal microscopy required. Submit résumé and the names of three references to: Dr. Michael Kotlikoff, Department of Animal Biology, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6046. E-mail: mik@vet.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available to study signal transduction and gene regulation in mammalian cells activated by bacterial products. Send curriculum vitae and names and telephone numbers of references to: Dr. Roman Dziarski, Indiana University School of Medicine, 3400 Broadway, Gary, IN 46408. E-mail: rdziar@iunhaw1.iun.indiana.edu.

### RESEARCH CHEMIST (BIOCHEMIST)

USDA, Agricultural Research Service (ARS) announces a position for a Research Chemist (Biochemist), GS-13/14 for the Red River Valley Agricultural Research Center at Fargo, North Dakota. The successful applicant will lead a research unit in the discovery of new control strategies for invasive perennial weeds. In addition, the incumbent is responsible for independent research on the identification and characterization of vulnerable biochemical targets in perennial weeds that increase their susceptibility to control and reduce their ability to survive environmental and physiological stress. Applicants must meet minimum education requirement, plus at least one (1) year of research experience at the postdoctoral level equivalent to the next lower grade. Salary (\$55,004 to \$84,495) is commensurate with qualifications. For vacancy announcement No. D8W-061 and application forms, call: Ms. Melanie Nyquist, Telephone: 701-239-1203 and for information on research, contact: Dr. Don Zimmerman, Telephone: 701-239-1370. U.S. citizenship is required. Application must be postmarked on or before March 16, 1998. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION

A Postdoctoral position is available to work in a molecular genetics research laboratory. Projects include structure/function studies of blood coagulation proteins, analysis of molecular pathogenesis for inherited bleeding and thrombotic disorders, and the development of mouse models to study the regulation of hemostasis *in vivo* using gene targeting approaches.

Please send your curriculum vitae and three letters of recommendation to: David Ginsburg, M.D., Howard Hughes Medical Institute, University of Michigan Medical School, 1150 West Medical Center Drive, 4520 MSRB I, Ann Arbor, MI 48109-0650. Telephone: 734-647-4808; FAX: 734-936-2888; e-mail: ginsburg@umich.edu.

### POSTDOCTORAL POSITION UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

NIH-supported Postdoctoral position available immediately to study the role of the JAK-STAT signaling pathway in preadipocyte/adipocyte growth and obesity. Experience in molecular biology, biochemistry, and/or cell biology is highly desirable. Prospective candidates should send a curriculum vitae, statement of research interest, date of availability, and names of three references to: Dr. Joyce B. Harp, University of North Carolina at Chapel Hill, Department of Nutrition, CB# 7400 McGavran-Greenberg Hall, Chapel Hill, NC 27599. E-mail: jharp@sph.unc.edu.

### POSTDOCTORAL POSITIONS

Novel retinoid signaling, J. Buck; Fungi: cell biology, biochemistry/GPIs, T. Doering; Nitric oxide and cell signaling, S. Gross; Vitamin A and cancer treatment, L. Gudas; Molecular pharmacology/analgesics, C. Inturrisi; Neural signaling/myocardial ischemia, R. Levi; Genetic analysis of adenylyl cyclases, L. Levin; Clinical pharmacology/gossypol, M. Reidenberg; Dioxin, arachidonate/CYP1A regulation/function, A. Rifkind.

Ms. Conti, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Telephone: 212-746-6250; FAX: 212-746-8858. Equal Opportunity Employer.

**POSTDOCTORAL POSITION** to study recombination in mammalian B cells, using biochemical and molecular genetic approaches. Please send curriculum vitae, statement of research accomplishments and interests, and three letters of reference to: Dr. Nancy Maizels, Department of Molecular Biophysics and Biochemistry, Yale University, 266 Whitney Avenue, New Haven, CT 06520-8114. FAX: 203-432-3047; e-mail: nancy.maizels@yale.edu.

# CAREERS IN BIOTECHNOLOGY & PHARMACEUTICALS

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## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE MOLECULAR BIOLOGY OF INTRANUCLEAR VIRAL MEMBRANE SORTING AND TRAFFICKING

Research with a team using viral envelope proteins as molecular markers to investigate the pathway of protein trafficking and assembly into the nuclear envelope with special emphasis on cell cycle regulated transport to the inner nuclear membrane. Research includes studies of protein-protein interactions, directed mutations and development of recombinant viruses, heterologous expression, and transformed cell lines. Successful candidate should have strong background in molecular biology techniques, combined with knowledge of protein trafficking, or protein-protein interactions, or molecular virology, or membrane-protein interactions. Position could start immediately or within nine months. Salary very competitive, negotiable, and commensurate with experience. Please send résumé and names of three references to: **Dr. Max Summers, Texas A&M University, Department of Entomology, College Station, TX 77843-2475.** *Texas A&M University is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION NEUROGENETICS, MOLECULAR BIOLOGY, AND NEUROPHARMACOLOGY

The Brain Function Research Institute (BFRI) is seeking laboratory staff to join fundamental research of dementia and related brain disorders. BFRI was newly founded in 1997 and is supported by the government. The main project is to make fundamental research for developing new antedementia drugs. Positions are available for individuals with Ph.D. in biochemistry or related field with experience in protein chemistry and/or molecular biology and interest in brain cell damage. BFRI offers a reasonable salary. For additional information, please contact: **The Brain Function Research Institute, Executive Director: Tohru Sawada, M.D., Ph.D., c/o National Cardiovascular Center, 5-7-1 Fujishirodai, Suita, Osaka 565 Japan. Telephone: +81-6-834-7646; FAX: +81-6-872-8761.**

### ANTICIPATED POSTDOCTORAL RESEARCHER

The Pennington Biomedical Research Center, a research facility of Louisiana State University, seeks qualified applicants for a Postdoctoral Researcher in the Obesity and Women's Health Research Program. Opportunities involve work with fat substitutes in a long-term diet study; longitudinal assessments of energy balance in perimenopausal women; and studies of dietary fat and insulin action. Requires a Ph.D. or M.D.-Ph.D. in nutrition, metabolism, or related field. Please submit cover letter and résumé by March 30, 1998, to: **Evelyn P. Bennett, Assistant Director, HRM, Ref: WHR, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA 70808.**

**POSTDOCTORAL POSITION** immediately available to work on the molecular pathogenesis of autoimmune blistering disease of skin and mucous membranes. Work focuses on the identification, purification, cloning, and expression of novel proteins. Experience in molecular and cellular biology is required. Background in immunology preferred. Send curriculum vitae and name and address of three referees to: **Dr. A. Razzaque Ahmed, The Center for Blood Research, Harvard Medical School, 800 Huntington Avenue, Boston, MA 02115. FAX: 617-278-3493.**

**POSTDOCTORAL POSITION** available immediately to investigate the plant receptors for bacterial avirulence proteins and/or the mechanism of Hrp-mediated type III protein transport from bacteria to plant cells. Candidates with background in molecular biology should send curriculum vitae and three references to: **Dr. Sheng Yang He, MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824-1312. E-mail: hes@pilot.msu.edu. An Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** are available to study regulation of mammalian cell death (Kelliher et al., *Immunity* March 1998). Background in molecular biology and biochemistry desirable. Send curriculum vitae and references to: **Dr. Michelle Kelliher, University of Massachusetts Medical Center, Two Biotech, 373 Plantation Street Suite 202, Worcester, MA 01605. E-mail: kelliher@rascal.med.harvard.edu.**

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS IN CANCER BIOLOGY UNIVERSITY OF WISCONSIN-MADISON

The Department of Human Oncology invites applications for competitive NIH-funded Postdoctoral Fellowships that are open to Ph.D.'s (or equivalent) who have a strong research background in biochemistry, cell biology, molecular biology, genetics, immunology, pharmacology, or related fields, and who wish to apply their skills to cancer-related problems. Applicants should not have been awarded their doctorate degree more than three years prior to the postdoctoral appointment.

Faculty and research programs include: **David A. Boothman, Ph.D.**, apoptosis, DNA repair, and cell cycle regulation; **Steven S. Clark, Ph.D.**, oncogenes and signal transduction, molecular pathogenesis of leukemia, developmental immunology; **Michael N. Gould, Ph.D.**, molecular biology and genetics of breast cancer, cancer prevention and therapy; **Paul M. Harari, M.D.**, modulation of cell cycle kinetics in tumor models; **Amy R. Moser, Ph.D.**, genetics of cancer susceptibility, experimental tumorigenesis; **Shigeki Miyamoto, Ph.D.**, rel/NFkB transcription factors; **R. Timothy Mulcahy, Ph.D.**, molecular mechanisms of drug resistance, molecular regulation of glutathione synthesis; **Catherine A. Reznikoff, Ph.D.**, molecular carcinogenesis, cancer genetics; **Mark A. Ritter, M.D., Ph.D.**, regulation of cell cycle kinetics in tumor cells; **Paul M. Sondel, M.D., Ph.D.**, tumor immunology, molecular biology of cytokine receptors, gene therapy; **Ajit K. Verma, Ph.D.**, role of protein kinase C and retinoic acid nuclear receptors in carcinogenesis.

For further information, qualified individuals (U.S. citizens or permanent residents only) contact: **Director, Cancer Biology Program, K4/510A CSC, University of Wisconsin, 600 Highland Avenue, Madison, WI 53792. E-mail: humcabio@vms2.macc.wisc.edu.** The positions need to be filled by April 30, 1998.

**POSTDOCTORAL POSITION.** A Postdoctoral position will be available in July or September 1998 for studies of the molecular basis of cell division in *E. coli*, with emphasis on defining the mechanism used to place the division septum at the correct location in the cell. Techniques will include molecular genetics, fluorescence, and immunomicroscopy for protein localization, and a strong emphasis on *in vitro* and *in vivo* interactions of proteins involved in this process (for example, the Min proteins) with each other and with other cellular components. Send curriculum vitae, brief description of prior research experience, and the names of several references to: **Dr. L. Rothfield, University of Connecticut Health Center, Farmington, CT 06032.**

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### POSTDOCTORAL FELLOWSHIP

We are seeking a candidate with experience in molecular biology and biochemical techniques to participate in studies on mechanisms of signal transduction and regulation of genes encoding drug-metabolizing enzymes in oxidative/chemical stress. The studies will involve the use of cell culture and animal (transgenic and knockout) model systems. Send curriculum vitae/bibliography and three letters of reference to: **Dr. Anil Jaiswal, Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-3498. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available to study interactions of antibodies with influenza virus glycoproteins. Candidates should have interest in protein structure. Experience in molecular biology and protein chemistry with virology and/or immunology is desirable. Send curriculum vitae and names of three references to: **Dr. Gillian Air, Department of Biochemistry and Molecular Biology, BMSB 840, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. E-mail: gillian-air@ouhsc.edu.**

**POSTDOCTORAL POSITION** available to study the molecular basis of cardiac disease and aging. Strong background in molecular biology including gene expression techniques and sequencing. *U.S. citizenship or permanent residency required.* Send résumé to:

**Jose Marin, M.D.  
The Molecular Cardiology Institute  
75 Raritan Avenue  
Highland Park, NJ 08904**

## POSITIONS OPEN

### MOLECULAR BASIS OF MELATONIN RHYTHMS

A **POSTDOCTORAL POSITION** is available to study the mechanisms of regulation (including phototransduction and entrainment) of circadian rhythms, and their expression in rhythms of melatonin synthesis (including enzyme induction and inactivation), as displayed by chick pineal cells in primary culture. Molecular, biochemical, and pharmacologic approaches are used. Applicants should have a strong background and interest in gene expression and molecular biology and/or transduction and second/third messengers. Candidates with good publication records will be given preference. Prior experience in one or more techniques related to transgene generation, analysis of gene expression *in situ* or signal transduction cascades, and/or tissue culture is essential. Please send curriculum vitae, a brief statement of research background and interests, and the names and e-mail addresses of three references to: **Martin Zatz, Ph.D., M.D., Lab of Cellular and Molecular Regulation, National Institute of Mental Health, Building 36, Room 2A-17, 36 Convent Drive MSC 4068, Bethesda, MD 20892-4068. E-mail: zatz@codon.nih.gov; website: <http://intramural.nimh.nih.gov/zatz.htm>.**

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### POSTDOCTORAL FELLOWS

The Children's Hospital of Philadelphia, the nation's first hospital dedicated solely to pediatric care, is currently seeking Postdoctoral Fellows to study the proteolytic enzymes of blood coagulation. The focus of the laboratory is to use physical biochemistry, protein chemistry, enzymology, and molecular biology to study the molecular basis of specificity, function, and regulation of the enzyme complexes of coagulation. Candidates should possess a Ph.D. degree with a sound background in protein chemistry and enzymology.

Please send a curriculum vitae and the name of three references to: **S. Krishnaswamy, Stokes Research Institute, The Children's Hospital of Philadelphia, 34th and Civic Center Boulevard, Philadelphia, PA 19104-4399.** We value your response; however, due to high applicant volume, we will only contact those candidates selected for interviews. *An Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.*

**Great Lakes. POSTDOCTORATES/GRADUATE STUDENTS** wanted to study the molecular biology of newly cloned adapters Grb10 and PSM in insulin, IGF-1, PDGF action (see: *Nature* 324:68, 1986; *Science* 236:197, 1987; *EMBO J.* 8:2943, 1989; *J. Virol.* 68:411, 1994; *JBC* 271:8882, 1996; *J. Biochem.* in press, 1997) by: **Heimo Riedel, Ph.D., Biological Sciences, Wayne State University, Detroit, MI 48202. Telephone: 313-577-7870; e-mail: hriedel@sun.science.wayne.edu. Wayne State University—people working together to provide quality service. Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free.**

### POSTDOCTORAL POSITION

An NIH grant-funded Postdoctoral position at the University of Michigan is available to study the cooperative interaction between the integrins and GPI-anchored receptors in mediating signaling events involved in inflammation and tumor metastases. Experience in cell and molecular biology is essential. Send a curriculum vitae and three letters of reference to: **Robert F. Todd III, M.D., Ph.D., 7216 CCGC, University of Michigan Medical School, Ann Arbor, MI 48109-0948. FAX: 734-936-7376; e-mail: robtodd@medmail.med.umich.edu. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** to study the molecular genetics of human DNA replication. Epstein-Barr virus sequences and immunoglobulin, globin, and *myc* gene families are being used as model systems both *in vivo* and *in vitro* to define mammalian origins of replication and to study their cell cycle regulation. The role of the LCR in the regulation of replication is also being investigated. Apply by mail and a FAX copy to: **Dr. C. Schildkraut, Albert Einstein College of Medicine, Resnick Campus, 1300 Morris Park Avenue, New York, NY 10461. FAX: 718-430-8574. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available in biochemistry for Ph.D. trained in immunology to carry out research on regulation of the immune system by vitamin D and vitamin A. Apply to: **H. F. DeLuca, Chair, University of Wisconsin-Madison, Department of Biochemistry, 420 Henry Mall, Madison, WI 53706.**

## POSITIONS OPEN

### MOLECULAR HEMATOPOIESIS ALLERGY AND INFLAMMATION

Two **POSTDOCTORAL POSITIONS**. The first is in transcription factors in hematopoietic development, to design/implement new strategies for identifying/cloning transcription factors that regulate myeloid-specific genes and to study these factors in myeloid development and gene regulation. Molecular biology experience in yeast 1 and 2 hybrid cloning systems and transcription factor research an asset. The second is in immunologic functions and molecular biology of eosinophils, to analyze eosinophil effector mechanisms and structure-function relationships for eosinophil protein mediators in inflammation and tissue damage in asthma and other allergic diseases. Experience in immunology, molecular biology, carbohydrates/lectins, and/or protein structure-function an asset. Mail or FAX curriculum vitae and three letters of reference to: **Professor Steven J. Ackerman, Department of Biochemistry and Molecular Biology (MC536), A-312 College of Medicine West, University of Illinois at Chicago, 1819 West Polk Street, Chicago, IL 60612. FAX: 312-996-5623.**

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### POSTDOCTORAL/RESEARCH FACULTY STRUCTURAL BIOLOGY

Two positions are available immediately to study: (1) subunit folding and dynamics in mechanisms of virus assembly, and (2) structural determinants of recognition in DNA-protein complexes. Research involves the use of Raman and UV-resonance Raman spectroscopy to probe biomolecular structure/function relationships. Experience in protein expression systems or protein/DNA isolation and characterization is required. English proficiency is essential, as some supervision of graduate students is expected. Please send résumé and have three letters of reference forwarded to:

**Dr. George J. Thomas**  
School of Biological Sciences—BSB403  
University of Missouri—Kansas City  
5100 Rockhill Road  
Kansas City, MO 64110

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### POSTDOCTORAL POSITIONS

The Lombardi Cancer Center, a NCI-designated cancer center at Georgetown University Medical Center has several Postdoctoral positions available in the areas of (1) c-Myc, cell cycle, and apoptosis; (2)  $\beta$ -catenin signaling and the ubiquitin/proteasome pathway; (3) matrix proteolysis; (4) tyrosine kinase signal transduction and inhibitor design; (5) novel methods for targeting oncogenic proteins for intracellular degradation; (6) retinoid regulation of cadherin expression and function, and mesenchymal cadherins. Available immediately. Salary \$25,000 to \$32,000. Contact: **Steve Byers, Robert Dickson, or C. Richter King, Lombardi Cancer Center, Research Building, 3970 Reservoir Road N.W., Washington, DC 20007. E-mail: byerss@gunet.georgetown.edu.**

## EUROPEAN OPPORTUNITIES

### POSTDOCTORAL POSITIONS STERIODS AND THE NERVOUS SYSTEM

Two Postdoctoral Research positions are immediately available in our research unit in Paris for two years (INSERM and European Community). Research areas include (1) intracellular and membrane receptors for steroids, (2) myelination, (3) memory, behavior, and (4) immunophilins. Strong background in molecular biology and/or experience in neurobiology are required. Send curriculum vitae, summary of research experience, and names of two referees by FAX or e-mail to: **Dr. M. Schumacher, Professor E. E. Baulieu, INSERM U488, 80 rue du Général Leclerc, Bioetre 94276 France. E-mail: schuma@kb.inserm.tr; FAX: 33-1-45-21-19-40.**

**POSTDOCTORAL POSITIONS** in molecular biophysics at the Ruhr-Universität Bochum available immediately for studies of molecular reaction mechanisms of proteins (photosynthesis, protein folding, h ras p21) with time-resolved FTIR and FT Raman spectroscopy in combination with molecular biology techniques. Send curriculum vitae and name of three references to: **Prof. Dr. Klaus Gerwert, Ruhr-Universität Bochum, Lehrstuhl für Biophysik, 44780 Bochum. Website: <http://www.bph.ruhr-uni-bochum.de>.**

## EUROPEAN OPPORTUNITIES



### ENVIRONMENTAL BIOENGINEERING PROFESSORSHIP

Université catholique de Louvain—Belgium

A full-time tenure-track faculty position in the area of environmental biotechnology and biological process engineering is opened at the Department of Applied Chemistry and Bioindustries, Faculty of Agricultural Sciences at the Catholic University of Louvain (UCL—Belgium). Available on October 1, 1998. Applications at the latest on March 15th, 1998. Information: **website: <http://www.agro.ucl.ac.be> under Département de chimie appliquée et des bioindustries, Postes vacants.**

## INTERNSHIPS

### NRC SUMMER INTERNSHIP PROGRAM

The National Research Council (NRC) is now accepting applications for its Summer Internship Program to provide students with the unique experience of working on science and technology policy activities. Graduate or postdoctoral candidates in any physical, biological, or social science or any field of engineering, medicine, or veterinary medicine, as well as law students who are specializing in science or engineering-related law are invited to submit the application available at **website: <http://www2.nas.edu/nrc-ip>**. Deadline of March 1, 1998. For more information, contact: **Dr. Deborah Stine, National Research Council, 2101 Constitution Avenue N.W., Washington, DC 20418. E-mail: [nrc-ip@nas.edu](mailto:nrc-ip@nas.edu).**

## SCHOLARSHIPS

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Further information and application forms are at **website: <http://genemed.ucla.edu>; e-mail: [eleon@surgery.medsch.ucla.edu](mailto:eleon@surgery.medsch.ucla.edu).**

**NEW Ph.D. PROGRAM IN ENVIRONMENTAL SCIENCES.** Arkansas State University is pleased to announce a new multidisciplinary Ph.D. Program in Environmental Sciences. Focus areas include environmental biology or chemistry, agricultural resource management, and environmental planning. Review of applications begins March 23. Graduate stipends up to \$14,000 are available. Contact: **Director, Environmental Sciences Program, Box 1030, State University, AR 72467-1030. Website: <http://www.csm.astate.edu/~environ/>.**

## COURSES & TRAINING

### BIODEGRADATION SHORT COURSE

The United States—European Commission Task Force on Biotechnology Research is sponsoring a Theoretical and Practical Course on Molecular Approaches for *in situ* Biodegradation to be held at Rutgers University, New Brunswick, New Jersey, from June 14 to June 27, 1998. The course is open to Senior Graduate Students and Junior Postdoctoral Fellows who have training in molecular microbiology and/or microbial ecology and who want to apply those skills to solving environmental problems. The course is designed to provide hands-on experience in modern, up-to-date biotechnological methods for the analysis of microbes and their activities in the remediation of pollutants in the environment. The course is limited to 12 U.S. and 12 E.U. students. Directors: **Gerben J. Zylstra, Jerome J. Kukor, and Lily Y. Young** of Rutgers University. Application deadline is April 3, 1998. Stipends, including a travel allowance, will be provided for all participants. Further information can be obtained at the **website: [www.envsci.rutgers.edu/courses/biodeg](http://www.envsci.rutgers.edu/courses/biodeg)** or by calling: **The Biotechnology Center for Agriculture and the Environment at Rutgers University, Telephone: 732-932-8165.** Applications will only be accepted by electronic submission through the website.

### GRADUATE RESEARCH AND TRAINING IN PLANT MOLECULAR BIOLOGY

The Plant Biotechnology Center at Kansas State University is offering Graduate Assistantships of \$17,000 per year in Ph.D. programs for students interested in an interdisciplinary approach to understanding plant processes at the molecular, cellular, and whole-plant levels. Degrees will be granted in the Division of Biology, in the Departments of Agronomy, Biochemistry, Entomology, Grain Sciences and Industry, and Plant Pathology, and in the interdepartmental program in genetics. Contact: **Fred W. Schwenk, Department of Plant Pathology, 4024 Throckmorton Hall, Kansas State University, Manhattan, KS 66506-5502. E-mail: [fws@plantpath.ksu.edu](mailto:fws@plantpath.ksu.edu); see also Graduate Research Assistantships at [website: http://www.ksu.edu/plantpath/plantbiotech](http://www.ksu.edu/plantpath/plantbiotech).**

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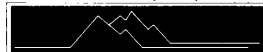


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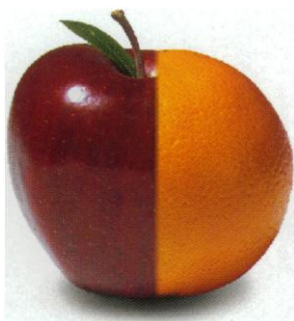
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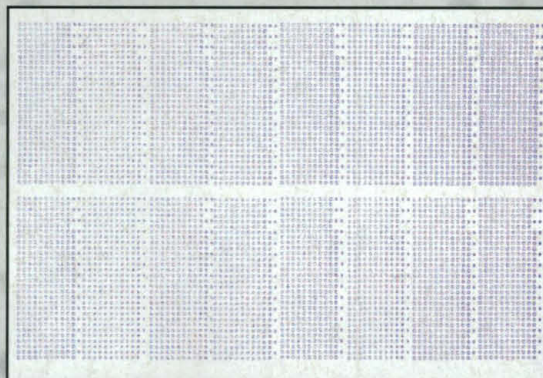


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- Ref 1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares, M.B. (1996) *Genomics* 33, 151-152.  
2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>

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