

## DISPLAY CLASSIFIED ADVERTISEMENTS

Call for rate and deadline information on display classified advertisements.

E-mail: science\_displayads@aaas.org

Bren Peters

Recruitment Display Advertising

Telephone: (202) 326-6541

FAX: (202) 289-6742

E-mail: science\_displayads@aaas.org

Gabrielle Boguslawski

Recruitment Advertising Sales Manager

Telephone: (718) 491-1607

FAX: (202) 289-6742

Debbie Cummings

European Recruitment Advertising

Telephone: +44 (0) 1223 302067

FAX: +44 (0) 1223 576208

E-mail: european\_ads@science-int.co.uk

## LINE CLASSIFIED ADVERTISEMENTS

### How to Submit a Line Classified Ad:

Send your ad text to: e-mail: science\_classifieds@aaas.org; fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. SCIENCE will edit and typeset ads according to SCIENCE style. **SCIENCE cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

**Estimates:** SCIENCE will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Eric Banks, Telephone: (202) 326-6555; or Troy Benitez, Telephone: (202) 326-6740; FAX: (202) 289-6742. E-mail: science\_classifieds@aaas.org

**Credit Cards:** SCIENCE accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

**Cancellations:** Deadline for cancellation is Tuesday, 10 days prior to issue date.

**Discounts:** A 3% cash discount is granted to all prepaid ads.

**Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

**SCIENCE Professional Network:** Unless otherwise instructed, all classified advertisements submitted for publication in SCIENCE are automatically posted on SCIENCE's online classified advertising service, SCIENCE Professional Network, at no additional charge. [www.sciencemag.org](http://www.sciencemag.org)

### Mail, FAX or E-mail materials to:

SCIENCE Classified Advertising  
1200 New York Avenue, N.W., Room 911  
Washington, DC 20005  
FAX: 202-289-6742

E-mail: science\_classifieds@aaas.org (please include your telephone number in e-mail)

*SCIENCE reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.*

## POSITIONS OPEN



### FACULTY POSITION IN MOLECULAR MEDICINE

We seek an outstanding Scientist with a research program in molecular medicine using transgenic or other models to elucidate the molecular basis of human diseases or to treat such diseases with molecular approaches such as gene therapy. Appointment will be at **ASSISTANT** or **ASSOCIATE PROFESSOR** level in one of the departments in the Colleges of Medicine, Dentistry, or Veterinary Medicine. This is a part of a major initiative in molecular life sciences to recruit 30 new faculty members in this area. Related areas of major emphasis at Ohio State include molecular cardiovascular and pulmonary sciences, molecular neurobiology, macromolecular structure, cancer genetics, and molecular retrovirology. A modern transgenic facility and a W. M. Keck Genetic Research Facility and all major equipment needed for research in molecular medicine are available on this comprehensive research university campus that is located in an extremely pleasant central Ohio community of 1.4 million people. Send curriculum vitae and have at least three letters of recommendation sent to: P. E. Kolattukudy, Chair, Search Committee, Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210. FAX: 614-292-5374; e-mail: kolattukudy.2@osu.edu. Screening will begin on April 30, 1998.

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

### FACULTY POSITIONS

Cardiovascular Pharmacology  
Endocrine Physiology and Pharmacology  
Pharmacaceutics  
Pharmacokinetics

The Department of Pharmaceutical Sciences of Texas Tech University Health Sciences Center (HSC), School of Pharmacy invites applications for five tenure-track faculty positions at the rank of **ASSISTANT/ASSOCIATE PROFESSOR**. Applicants must have a Ph.D. in pharmacology, physiology, biochemistry, pharmacaceutics, or related discipline. An undergraduate degree in pharmacy is not required. Successful candidates will be expected to develop a strong research program as well as teach and mentor students. The School is located in a new 102,000-plus square-foot building close to the Texas Tech School of Medicine. For more information, visit our website: [ismo.ama.ttuhscc.edu](http://ismo.ama.ttuhscc.edu). Applicants should submit a curriculum vitae, a summary of research and teaching interests, and three letters of reference to: Dr. Quentin Smith, Texas Tech University Health Sciences Center, School of Pharmacy, 1300 Coulter Drive, Amarillo, TX 79106. FAX: 806-356-4034; e-mail: [quentin@cortex.ama.ttuhscc.edu](mailto:quentin@cortex.ama.ttuhscc.edu).

*Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.*

### YALE UNIVERSITY

#### SENIOR FACULTY POSITION

Experimental Condensed Matter Physics

The Department of Physics invites applications for a faculty appointment at the tenured **FULL** or **ASSOCIATE PROFESSOR** level in the area of experimental condensed matter physics. This position will be awarded to a Physicist with demonstrated ability and accomplishment who is recognized as a leader, or potential leader, in the field. In addition to the capability to supervise an active research group, the successful candidate must have capacity and interest in teaching at the undergraduate and graduate levels. Interested candidates should send a curriculum vitae and publication list, and arrange for three letters of recommendation, to: Professor Charles Balty, Chair, Department of Physics, Sloane Physics Laboratory, 217 Prospect Street, P.O. Box 208120, New Haven, CT 06520-8120. Telephone: 203-432-3650. Application materials should arrive no later than April 20, 1998. Yale is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minority group members.

## POSITIONS OPEN

### SENIOR-LEVEL FACULTY POSITION DEPARTMENT OF MEDICINAL CHEMISTRY

University at Buffalo  
State University of New York

The Department of Medicinal Chemistry invites applications for a tenured, senior-level faculty position (rank open) in medicinal chemistry with an anticipated start date in the 1998-1999 academic year. The department has been a major center for medicinal chemistry training since 1958 and is housed within the School of Pharmacy. Excellent opportunities exist for collaborative studies with other departments within the University such as Chemistry, Pharmacaceutics, Biology, and Biochemistry as well as with departments within the Medical School and the Roswell Park Cancer Institute. The department has modern facilities including access to state-of-the-art instrumentation. The University NMR facility includes 500, 600, and 750 MHz spectrometers. Applicants must have a Ph.D. or equivalent as well as other relevant experience and a commitment to excellence in both research and teaching. Preference will be given to candidates employing organic synthesis, bioorganic, or bioinorganic chemistry in biological/medical applications. Candidates should have an established research program with a record of scholarly achievements suitable for appointment to a tenure position at the University at Buffalo. The candidate will be expected to participate in Departmental and University activities and may be considered, in addition, as a candidate for Chair of the Department. More information about the Department of Medicinal Chemistry can be found at our website: <http://wings.buffalo.edu/go?mch>.

Evaluation of candidates will begin April 15, 1998. However, applications will be accepted until the position is filled. Please send applications to:

Chair, Faculty Search Committee  
Department of Medicinal Chemistry  
SUNY at Buffalo  
North Campus, Cooke 457  
Amherst, NY 14260

*The Department of Medicinal Chemistry is particularly interested in considering applications from women, ethnic minorities, or disabled persons. SUNY at Buffalo is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS DEPARTMENT OF BIOLOGY KUTZTOWN UNIVERSITY

Two full-time, one-year, temporary faculty positions at the **INSTRUCTOR** or **ASSISTANT PROFESSOR** level to begin in August 1998. Each individual will teach a large lecture section and laboratories in introductory biology for non-science majors. Ph.D. and experience teaching non-majors biology preferred. Full-time temporary faculty are also expected to meet service obligations to the department, which could include conducting student/faculty research, contributions to the revision of non-major biology courses, and other departmental duties. Applicants will be considered after résumé, three letters of recommendation, and all undergraduate and graduate transcripts have been received. Successful interview and demonstration of ability are also requisite qualifications. Application deadline is April 17, 1998. Send to: Prof. Robert G. Gray, Chair of the Search Committee, Biology Department, Kutztown University, Kutztown, PA 19530. FAX: 610-683-1352; e-mail: [rgray@kutztown.edu](mailto:rgray@kutztown.edu). *Kutztown University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT PROFESSOR OF BIOLOGY

Assistant Professor tenure-track faculty position at The University of Tennessee at Martin beginning August 1998. Primary duties include teaching undergraduate courses in cell biology, botany or developmental biology, and general biology. Other responsibilities include academic advising of students, research involving undergraduate students, and participation in university activities.

Qualifications include a Ph.D. in a biological science (by August 1, 1998). Preference will be given to persons with a strong commitment to excellence in undergraduate teaching. Applications should include a curriculum vitae, transcripts for the Ph.D. degree, and three letters of reference. Send to: Dr. John L. Collins, Chair, Cell Biology Search Committee, Department of Biological Sciences, University of Tennessee at Martin, Martin, TN 38238.

*An Equal Opportunity/Affirmative Action Employer.*





# CNS Discovery Research at Schering-Plough

It's an exciting time at Schering-Plough Research Institute. Every day, some of the world's brightest minds are discovering breakthrough therapeutic agents and treatments that will improve the health and extend the lives of millions of people around the world. As we continue to experience unprecedented growth, we are moving confidently into the 21st century and seek exceptional Scientists who want to be on the cutting edge of pharmaceutical discovery. The following outstanding opportunities are available in our expanding CNS Drug Discovery group located in our state-of-the-art Drug Discovery Facility in Kenilworth, NJ.

## **CNS Molecular Pharmacology, Molecular Biology & Biochemistry**

We seek BS, MS and PhD level scientists with strong backgrounds in molecular pharmacology, molecular biology and biochemistry to join research teams studying the molecular mechanisms of CNS disorders such as Alzheimer's disease, stroke, schizophrenia and metabolic diseases. In addition to general cell and molecular biology techniques, candidates should have experience in at least one of the following areas: primary neuronal cell culture, assessment of neuronal cell survival and neuronal cell death, receptor binding assays and signal transduction assays. Good communication skills and attention to detail are essential. For consideration, respond to Dept. CNS-MB.

## **Receptors**

Several openings exist for BS or MS level scientists to join a group focused on the identification and characterization of receptors and related proteins as potential therapeutic targets. Previous experience in cDNA library construction and cloning, cell culture, protein purification and mammalian gene expression analysis is required. For consideration, respond to Dept. CNS-RR.

# Using Science for Human Advantage

## **C. elegans Genomics**

We seek a PhD level scientist with experience in functional genomics studies in *C. elegans*. The successful candidate will have a PhD in Neurobiology or Molecular Biology/Biochemistry and at least 2 years of postdoctoral experience using *C. elegans* as a model organism for human gene function. Expertise in gene knockouts, GFP fusions and bioinformatics is required. For consideration, respond to Dept. CNS-CE.

## **CNS Pharmacology/Electrophysiology**

Openings for scientists with BS, MS and PhD degrees exist in our CNS Pharmacology department. Successful candidates will have strong backgrounds using *in vivo* techniques and biochemical assays to study models of blood/brain barrier and/or gastrointestinal-renal function, or behavioral pharmacology. Positions are also available in our newly formed electrophysiology laboratory to study the effects of novel compounds on nervous system function. For consideration, respond to Dept. CNS-PE.

## **Bioinformatics**

Several positions are available in our Bioinformatics group for scientists with strong bioinformatics experience. The successful candidates will have either a PhD and at least 2 years of bioinformatics experience in a research setting, or an MS in Computer Science with a background in Biology. Strong interpersonal and communication skills are essential. For consideration, respond to Dept. CNS-BI.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at <http://www.sp-research.com> or send a scannable resume and cover letter, original copy only, referencing the Dept. Code for your position of interest, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



**Schering-Plough  
Research Institute**

Using Science for Human Advantage



# STA FELLOWSHIP PROGRAM

## Postdoctoral Fellowships in Japanese National Laboratories

### Introduction

The Science and Technology Agency (STA), an administrative organ of the Government of Japan, established the STA Fellowship Program in 1988 in order to offer opportunities for promising young foreign researchers in the fields of science and technology to conduct research at Japan's national laboratories and public research corporations (excluding universities and university-affiliated institutes). The Program is also a response to calls from the international community of science and technology for greater international cooperation through the exchange of promising researchers.

Since Oct. 1, 1989, the Program has been managed by the Japan Science and Technology Corporation (JST), a statutory organization under the supervision of STA, in cooperation with the Japan International Science and Technology Exchange Center (JISTEC). JST also has the strong support and cooperation of the Responsible Organizations listed in Table 1.

### Tenure and Field of Research

The tenure will be from 6 months to 2 years (Long-Term Fellowship), or 1-3 months (Short-Term Fellowship), to be decided upon through negotiation between the candidate and the host institute. The field of research will also be decided upon through negotiation between the candidate and the host institute, the results of research activities produced during the tenure will be subject to the regulations of the host institute.

Research fields include: Mathematics; Physics; Geology; Electricity; Electrons; Information Engineering; Mechanics; Engineering Works; Architecture; Erosion Control; Landscaping; Chemistry; Metals; Resources Engineering; Medical Science; Pharmaceuticals; Agricultural Technology; Farming; Forestry; Fisheries; others in the Natural Sciences.

### Fellowship Qualifications

The long term fellowships are open to PhD holders of under 35 in principle, (N.B.: Any age is acceptable for Short-Term Fellowships) from universities, research councils, government research laboratories and industry. Any science or engineering discipline will be considered except military R & D.

Applicants should be of sufficient good health to pursue research activities in Japan.

Have sufficient language ability to pursue research activities in Japan, Japanese language ability is preferable, but English is sufficient in most cases. With the agreement of the host research institute, other languages may suffice. The short term fellowship has no age limitation but applicants should have same qualifications except age limitation.

### FELLOWSHIP AWARDS

Fellowships include round-trip air tickets (not available for dependents) and the following allowances:

- 1) Living allowance: 270,000 a month
- 2) Family allowance: 50,000 a month if Fellows are accompanied by one or more dependents during their tenure.
- 3) Housing: Apartments will normally be provided to awardees. The apartment floor area is 40m<sup>2</sup> for awardees unaccompanied by their family and 60m<sup>2</sup> for awardees to stay with their family in other than metropolitan areas such as Tokyo. If an awardee prefers to use a larger apartment because of the family size or otherwise 106,000 maximum per month may be paid as housing allowance; any shortfall is to be borne by the awardee. Short term fellows will necessarily be requested in hotels.
- 4) An initial international settling-in allowance: 200,000 (This amount is less in the case of short stays.)
- 5) An annual allowance of up to 115,000 for travel within Japan related to research activities.
- 6) Medical insurance (N.B. not available for dependents.)

### Assistance for Fellows

If they wish, Fellows may take advantage of the following assistance:

- 1) Free Japanese language courses for Fellows whose host research institutes are in Tsukuba area. Fellows whose institutes are located elsewhere are entitled to reimbursement of reasonable amounts for language tuition at a private school. (N.B. not available for dependents);
- 2) Since most apartments in Japan are unfurnished, basic furniture and electric appliances will be provided free of charge to Fellows;
- 3) Counseling on problems relating to such aspects of daily life as children's schooling, medical care and shopping, is available for Fellows living in Tsukuba area.

### APPLICATION PROCEDURE FOR STA FELLOWSHIP (Fig 1)

There are two methods as they are explained below.

#### 1) Application through Responsible Organization (Fig. 1-A)

Applicants possessing the nationality or citizenship or permanent resident status of a country listed in Table 1 should:

- ① Contact the Responsible Organization in their country to obtain an application form and information about the host research institutes given in Table 2.
- ② Communicate with host research institutes of interest to ascertain their suitability for the applicant's area of specialization. This should be done using the attached Form 1.
- ③ After agreeing with the prospective host institute on the subject of research, the length of tenure and starting date for the Fellowship, the applicant should obtain from the institute a formal letter of acceptance expressing its willingness to serve as a host.
- ④ Submit the completed application form and the letter of acceptance to the Responsible Organization concerned. The Responsible Organization will then screen applicants, and submit its recommendations for Fellowship candidates to JST through JISTEC, accompanied by a complete dossier on the candidates. (The time to submit the application form will differ for each Responsible Organization, so it is necessary to check this beforehand.)
- ⑤ JST will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The Responsible Organization and the host research institute concerned will also be informed in this respect. (It will take approx. two months to complete the screening.)

#### 2) Application through Host Research Institute (Fig. 1-B)

- ① All applicants can apply by using this procedure, whether or not applicants have nationality or citizenship or permanent resident status of a country listed in Table 1. Applicants should send enquiries directly to institutes of interest listed in Table 2. This should be done using the attached Form 1.
- ② The institute will screen the applicant and, if willing to pursue the application, will request him/her to send pertinent documents and information. These will then be sent along with a letter of recommendation to JST through JISTEC. (Complete dossiers on candidates are all submitted to JST through JISTEC twice a year, usually in January and in June.)
- ③ JST will then conduct a further screening and notify successful applicants by sending a Letter of Award through JISTEC. The host research institute concerned will also be informed in this respect. (It will take approx. two months to complete the screening.)

Fig. 1-A Application through Responsible Organization

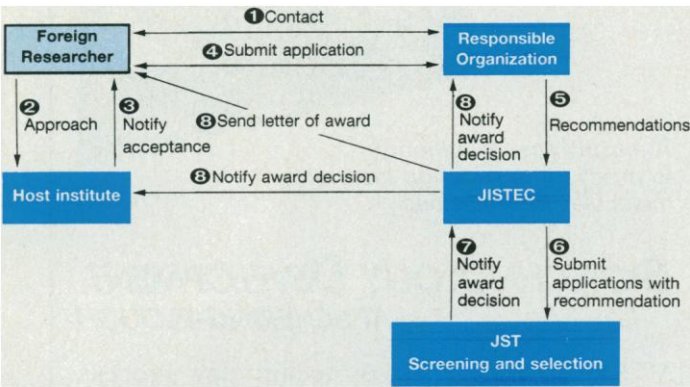


Fig. 1-B Application through Host Research Institute

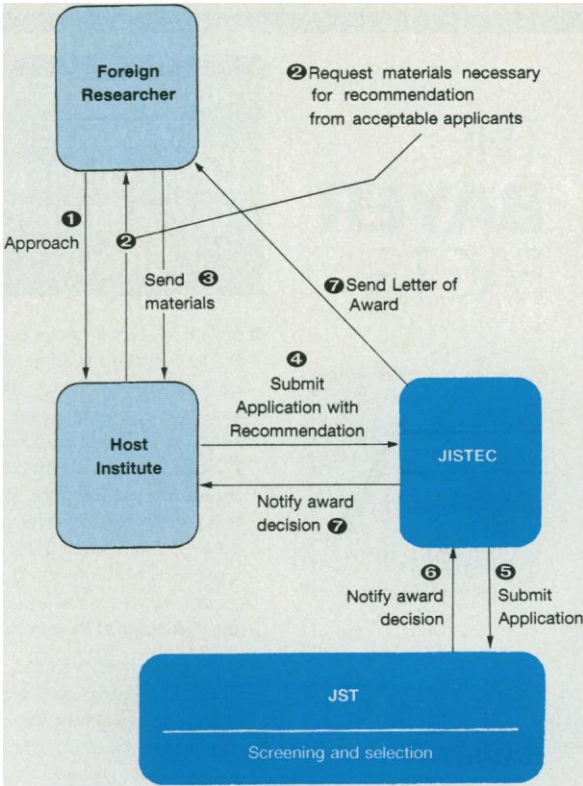


Table 1 RESPONSIBLE ORGANIZATIONS

Country	Contact
AUSTRALIA	THE AUSTRALIAN ACADEMY OF SCIENCE Ms. Thérèse Lewis International Exchange Officer GPO Box 783, Canberra ACT 2601 Tel: 61-6-247-3966 Fax: 61-6-257-4620
AUSTRIA	AUSTRIAN ACADEMIC EXCHANGE SERVICE Mr. Florian Gerhards Responsible for fellowship program for Japan Berggasse 21/7, A-1090 Wien, Austria Tel: 43-1-317-27-93 Fax: 43-1-317-27-95
CANADA	NATURAL SCIENCE AND ENGINEERING RESEARCH COUNCIL Ms. Patricia Houston Program Officer, International Programs Constitution Square, Tower II 350 Albert Street, Ottawa, Ontario K1A 1H5 Tel: 1-1613-947-0190 Fax: 1-613-992-5337
CHINA	THE STATE SERVICE AND TECHNOLOGY COMMISSION Mr. Ye Dongbai Department of International Cooperation 15B, Fuxing Rd, Bejin, 100862 China Tel: 86-10-12635 Fax: 86-10-8515048
GERMANY	ALEXANDER VON HUMBOLDT-STIFTUNG (for Long-Term Fellowship) Dr. Klaus Manderla Department Sponsorship Abroad Jean-Paul-Str. 12, D-53173 Bonn Tel: 49-228-833-101 Fax: 49-228-833-199 DEUTSCHER AKADEMISCHER AUSTAUSCHDIENST (for Short-Term Fellowship) Mr. Peter Groscurth Program for Japan Kennedyallee 50, D-53175 Bonn Tel: 49-228-882-0 Fax: 49-228-882-444
FINLAND	THE ACADEMY OF FINLAND Ms. Kaisu Lindelman Exchange Program Secretary P.O. Box 57, SF-00551 Helsinki Tel: 358-9-774-881 Fax: 358-9-774-88379
FRANCE	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE Ms. Flora Gheno Mission of International Relations 3-5 rue Michel-Ange, 75781 Paris Cedex 16 Tel: 33-1-44-96-46-91 Fax: 33-1-44-96-49-10
INDIA	DEPARTMENT OF SCIENCE & TECHNOLOGY Mr. G. Padmanabham Principal Scientific Officer Technology Bhavan, New Mehrauli Road, New Delhi-110016 Tel: 91-11-667373 Fax: 91-11-6862418
ITALY	MINISTERO DELL'UNIVERSITÀ E DELLA RICERCA SCIENTIFICA E TECNOLOGICA Dr. Gioacchino Fonti Department for International Relations-UFFICIO VI Piazzale J.F. Kennedy 20-00144 Roma Tel: 39-6-59912819 Fax: 39-6-59912967

NETHERLANDS	STICHTING VOOR DE TECHNISCHE WETENSCHAPPEN (STW) Dr. C. A. M. Mombers Program Officer Postbus 3021, 3502 GA Utrecht Van Vollenhovenlaan 661, Utrecht Tel: 31-30-923275 Fax: 31-30-961536
NEW ZEALAND	MINISTRY OF RESEARCH, SCIENCE AND TECHNOLOGY Mr. Rick Petersen International Science Officer P.O. Box 5336, Wellington Tel: 64-4-472-6400 Fax: 64-4-471-1284
NORWAY	THE RESEARCH COUNCIL OF NORWAY Ms. Else Boon Advisor P.O. Box 2700 ST. Hanshaugen 0131 Oslo Tel: 47-2-2037000 Fax: 47-2-2037001
SWEDEN	NUTEK Mr. Kurt Boigne Coordinator Asia Liljeholmsvägen 32, S-117 86, Stockholm Tel: 46-8-681-9100 Fax: 46-8-681-9625
SWITZERLAND	SWISS NATIONAL SCIENCE FOUNDATION Dr. Benno G. Frey Head of the Fellowship Section Wildhainweg 20, CH-3012, Bern Tel: 41-31-27-22-22 Fax: 41-31-23-30-09
UNITED KINGDOM	THE ROYAL SOCIETY (for Long-Term Fellowship) Ms. Vida Cody Head of Japan Exchanges 6 Carlton House Terrace, London SW1Y 5AG Tel: 44-71-839-5561 Fax: 44-71-930-2170
UNITED STATES	NATIONAL SCIENCE FOUNDATION Mr. Randall Soderquist Japan Programs, Room 935 Division of International Programs 4201 Wilson Blvd. Arlington, VA 22230 Tel: 1-703-306-1701 Fax: 1-703-306-0476 or 0477 NATIONAL INSTITUTES OF HEALTH Dr. Kenneth Bridbord Director, Div. of International Training and Research Fogarty International Center Bldg. 31, Rm. B2C39 Bethesda, Maryland 20892 Tel: 1-301-496-1653 Fax: 1-301-402-2056 EUROPEAN COMMISSION Mr. Mario Merla Directorate-General for Science, Research and Development DG XII-G-3 200 Rue de la Loi, 1049 Brussels, Belgium Tel: 32-2-295-39-90 Fax: 32-2-296-98-24
EUROPEAN UNION	

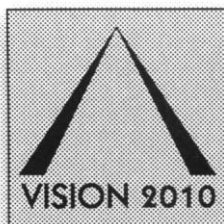
Further information regarding the STA Fellowship and host institute is available from the responsible organizations, JISTEC and JST. (See below)

Japan Science and Technology Corporation (JST)  
Kawaguchi Center Building 1-8, Hon-cho 4-chome, Kawaguchi-city, Saitama Pref. 332, Japan  
Tel: 81-48-226-5630 Fax: 81-48-226-5652 Web-site: <http://www.jst.go.jp/> E-Mail: [tezuka@jst.go.jp](mailto:tezuka@jst.go.jp)

Japan International Science and Technology Center (JISTEC)  
20-5, Takezono, 2-chome, Tsukuba City, Ibaraki Pref. 305 Japan  
Tel: 81-298-53-8250 Fax: 81-298-53-8260



# THE BAYER FACTS:



## Bayer:

**A premier  
healthcare  
company for  
the 21st century.**

Our business is  
to significantly  
improve health  
worldwide.

People are the heart  
of our company.

Our corporate  
culture inspires and  
commits all  
to do their best.



**Pharmaceutical  
Division**

**Biological Products**

## SECTION HEAD PROCESS DEVELOPMENT ENGINEERING GROUP

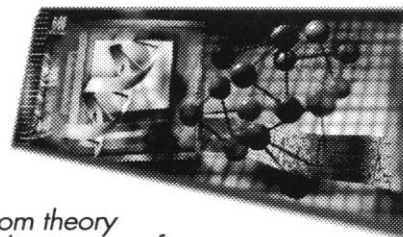
■ In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" that distinguish us as a leader. To name a few, we are part of Bayer Corporation, a \$32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Clayton facility is the largest of its kind in the world and is primarily involved in the manufacture of **Biological Products**.

■ The incumbent will direct the Process Engineering Group of the Technology Department and will contribute to the development of new purification processes for plasma proteins. The process optimization work will center around unit operations as chromatography, membrane separation, and filtration. Major focus will be the scale-up from marco-bench to pilot-scale and beyond. You will also interface with project engineering and play a major role in the realization of new processes, e.g. IGIV, as well as supervise subordinate process development scientist and engineers.

■ To qualify, you must have a Ph.D./MS in Chemical Engineering with a minimum of 4-6 years experience in manufacturing, preferably in the pharmaceutical industry or biotechnology. Candidate should be familiar with GLP/GMP rules and conditions. Experience in project engineering as well as working knowledge in protein chemistry is preferred.

■ For immediate consideration, please forward your resume (indicating response code 98-72) including salary history to: **RF/Human Resources Administrator, Bayer Corporation, Pharmaceutical Division, P.O. Box 507, Clayton, NC 27520**. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cm/bayer/>

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



*The transition from theory  
to practical application transforms  
molecules to medicines*

## BIOTECHNOLOGY DEVELOPMENT AT SCHERING-PLOUGH

At Schering-Plough's Biotechnology Process Development Facilities in Union, NJ, scientists and engineers skillfully perfect innovative and cost-effective methods to bring quality pharmaceutical products to market. In this technologically advanced environment, you will provide the vital link between research and manufacturing.

## SCIENTIST/CHEMICAL ENGINEER

As a member of our Biotechnology Development Group, you will play a key role in the timely advancement of clinical candidates toward approval. You will be involved in the development of fermentation and purification of recombinant proteins and viruses. Responsibilities will include the transfer of processes to our facility in Switzerland, requiring overseas travel.

To qualify, you will need an MS in Biochemical Engineering, Biochemistry or a related field and 0-4 years of experience or a BS and 2-6 years of experience. Preference will be given to individuals with demonstrated skills in mammalian cell culture, microbial fermentation and protein purification. Strong problem-solving skills and computer experience are necessary. Knowledge of cGMP guidelines is desirable.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to apply on-line at **<http://www.sp-research.com>** or send a scannable resume and cover letter, original copy only, referencing Dept. BD97-25-BHS, to: Schering-Plough Research Institute, MS #1250, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



**Schering-Plough  
Research Institute**

**Using Science for Human Advantage**



# Genomics to antibiotics = ensuring a healthy future

---

## Microbiology Research

---

SmithKline Beecham Pharmaceuticals is at the forefront of anti-infectives research and a leader in using genomic technologies in the discovery of drugs that will shape and influence the future of worldwide health programs. Our Microbiology Research department is committed to intensive research into new antimicrobial targets and their utility in identifying novel antimicrobial agents. Opportunities exist at the PhD, Postdoctoral Fellow, MS and BS levels of expertise.

### Investigators

PhD level positions exist in microbial biochemistry and molecular biology. We are seeking candidates with expertise in bacterial gram-positive genetics, bacterial translation and/or transcription systems, molecular biology, gene expression and regulation, gene replacement and knock-out techniques, development and use of animal models of infection for examining pathogenesis. **Refer to Job Code 98RLDM1S.**

### Postdoctoral Fellowships

The successful candidate will investigate novel screening formats and assay development for new antibacterial targets. To qualify, candidates should have expertise in Protein Biochemistry and experience with enzymes and/or receptors. Experience in fluorescence polarization, time resolved fluorescence, resonance energy transfer or scintillation proximity assays is preferred. **Refer to Job Code 98RLDM2S.**

In this position, the successful candidate will work with gram-positive genetic systems and their development for use in anti-microbial target discovery and characterization. Expertise in microbial and molecular biology is essential, as is experience with microbial genetic systems, gene replacement and knock-out techniques. Experience in the pharmaceutical industry is preferred. **Refer to Job Code 98RLDM3S.**

The successful candidate will study gene expression of pathogenic bacteria in various disease models using microarray technology. Experience in microbiology, molecular biology and/or nucleic acid chemistry is desired. **Refer to Job Code 98RLDM4S.**

### Research Scientists

**For these positions, Refer to Job Code 98RLDM5S.**

The successful candidate will assist in the genetic characterization of novel antibacterial agents. Expertise in gram-positive bacterial gene cloning, vectorology and gene knockout technology is desirable. A BS is required with experience in DNA molecular biological techniques, bacterial genetic techniques and DNA sequence homology analysis.

The successful candidate will conduct studies to investigate the disposition and pharmacodynamics of novel antibacterial agents in experimental models of infection. An MS or PhD with expertise in the development and use of animal models of infection for the evaluation of antibacterial distribution and efficacy is essential. A working knowledge of pharmacokinetics/pharmacodynamics and expertise in microbiology/pharmacology is preferred.

The successful candidate will assist in the characterization of novel bacterial DNA replication targets and inhibitors, run routine screens for inhibitor evaluation, identify assayable functions of essential bacterial proteins and develop assays amenable to high throughput screening. A minimum of a BS is required, as is experience with in-vitro assay development.

---

## Molecular Virology and Host Defense

---

We are also seeking Scientists for our Molecular Virology and Host Defense department. This department works on projects which encompass basic and applied research in many aspects of virology including viral replication, pathogenesis, host-virus interaction, and the discovery of novel anti-viral compounds as well as the immunology of infectious diseases including immunomodulators, hematoregulatory cytokines, and stromal cell biology.

### Scientist

The selected individuals will assist in research aimed at discovery, evaluation and development of novel therapeutic anti-viral agents for human herpes viruses and respiratory viruses; and will apply virological, molecular, and biochemical skills as a member of a multi-disciplinary team.

The successful candidates will possess a BS/MS in Biological Sciences, and a minimum of 5-7 years of post-graduate experience in a wide variety of advanced molecular biological skills including DNA, RNA, protein analysis, PCR, and tissue culture. Experience with analysis of differential gene expression and cDNA expression arrays is preferred. Candidates with a demonstrated ability to trouble shoot molecular procedures, identify new techniques and adapt them to relevant research, and plan individual experiments in relation to a broad set of research objectives are preferred. Excellent organizational, communication, and computer skills, as well as the ability to work both independently and effectively with individuals of varied backgrounds and disciplines are required. **Refer to Job Code 98RTSRLS.**

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package and a stimulating work environment in which to grow and excel. 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.** For more information on SmithKline Beecham, visit our Web site at [www.sb.com/careers](http://www.sb.com/careers). We are an Equal Opportunity Employer, M/F/D/V.



**SmithKline Beecham**  
Pharmaceuticals

Challenging the natural limits.





## United States Environmental Protection Agency Postdoctoral Program National Exposure Research Laboratory

The U.S. Environmental Protection Agency (EPA) is seeking candidates to fill as many as **50 federal, three-year postdoctoral research positions** during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Exposure Research Laboratory (NERL). NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators); waste site characterization; remote sensing; and landscape ecology. NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging pathogens in water supplies; exposure of children to pesticides; exposure of humans and ecosystems to endocrine disruptors; multi-pathway exposure modeling in humans; development of integrated multimedia transport and fate models; and assessment of the relative importance of exposure to a variety of stresses in regional ecosystems and large watersheds.

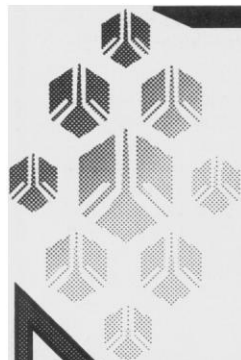
Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, physics, biology, microbiology, ecology, geography, applied mathematics and statistics, human health sciences, meteorology, computer science, and environmental or chemical engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years.

The NERL postdoctoral positions will be located in a division at either Research Triangle Park, North Carolina; Cincinnati, Ohio; Athens, Georgia; Las Vegas, Nevada; or Reston, Virginia, depending on the particular disciplinary focus, and will be filled beginning **September 1998**. These term appointments will last for three years and offer a salary range of **\$38,593–\$60,135**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. *United States citizenship is a requirement of all these jobs.*

If you are interested in these postdoctoral positions, **please send a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus and the geographic location(s) you prefer to Ms. Terri Burrell, U.S. Environmental Protection Agency, National Exposure Research Laboratory (MD-75), Research Triangle Park, NC 27711, Attn: Postdoctoral Positions.** Please respond to this advertisement no later than **March 31, 1998**. After all responses are reviewed, candidates will receive written notice of the next stage of the application process no later than **June 15, 1998**.

For more information on the complete EPA postdoctoral program, you may access the Office of Research and Development's Internet site at <http://www.epa.gov/ord/>.

*The U.S. EPA is an Equal Opportunity Employer.*



BioChem Therapeutic Inc., a subsidiary of BioChem Pharma Inc., is a Canadian-based pharmaceutical company located in Laval, Quebec, and dedicated to the research, development and commercialisation of innovative products for the treatment of human diseases.

### Associate Director, Cancer Biology (R97-83)

Reporting to the Director of Biology, you will be responsible for managing the Laval Cancer Biology Research Group, composed of 16 scientists. You will also help coordinate angiogenesis and apoptosis research efforts between the Laval and Boston sites.

Your qualifications include a PhD and postdoctoral experience in cellular/molecular biology, combined with management experience and at least six years of experience in cancer biology.

### Research Scientist, Cancer Biology (R97-84)

To participate in the discovery of novel therapeutics, you must hold a PhD in Biochemistry or Molecular Biology and possess two to five years of experience in cancer biology and apoptosis. Experience in the fields of molecular oncology and apoptosis is necessary.

If you share our commitment to excellence and demonstrate a capacity for teamwork, kindly send your resume before April 3, 1998, **indicating the appropriate position title and the corresponding reference number**, to the Human Resources Department, BioChem Therapeutic Inc., 275 Armand-Frappier Blvd., Laval, Quebec, Canada H7V 4A7. Fax: (514) 978-7992; E-mail: [cv@biochem-pharma.com](mailto:cv@biochem-pharma.com)



**BIOCHEM PHARMA**  
BIOCHEM THERAPEUTIC

*We offer a competitive salary, a full range of benefits and equal employment opportunities to all. Only candidates selected for an interview will receive an acknowledgement.*

The fundamentals  
of tomorrow's  
medical answers  
start here



# AS BIG AS LIFE ITSELF

GENETICS INSTITUTE'S MISSION IS TO DO WHAT HAS NEVER BEEN DONE BEFORE ... TO DISCOVER NEW PROTEIN-BASED THERAPEUTICS FOR THE TREATMENT OF A WIDE VARIETY OF HUMAN CONDITIONS. AS A RESULT, THE CHALLENGES WE FACE ARE EXTRAORDINARY. YET BECAUSE OUR WORK GOES DIRECTLY TOWARD IMPROVING HEALTH AND LIFE FOR PEOPLE AROUND THE WORLD, THE REWARDS OF OUR WORK ARE JUST AS IMPRESSIVE ... AS BIG AS LIFE ITSELF.



WITH TWO MILESTONE PRODUCTS - BENEFIX™ AND NEUMEGA® RECEIVING FDA APPROVAL IN 1997 - GENETICS INSTITUTE IS WELL POSITIONED TO CONTINUE ITS SUCCESS AND GROWTH INTO THE NEXT MILLENNIUM. WE ARE COMMITTED TO PROVIDING TO OUR DEDICATED PROFESSIONALS, WHO CONTRIBUTE SO MUCH TO OUR SUCCESS, THE RIGHT TOOLS AND TECHNOLOGY NEEDED TO MEET THE CHALLENGES THAT MAKE OUR ENVIRONMENT UNIQUE. YOU'LL FIND IT'S A GREAT ORGANIZATION FOR BUILDING A REWARDING CAREER.

## MAMMALIAN AND MICROBIAL CELL SCIENCES/PILOT LAB

The Mammalian and Microbial Cell Sciences/Pilot Lab is responsible for the design, development and ongoing support of GMP cell culture and fermentation processes. This multidisciplinary department employs molecular and cell biology, biochemistry, microbiology, cell physiology and chemical engineering to create the capacity to manufacture recombinant human proteins of exceptional quality in a consistent and economical manner. Several openings exist for individuals with hands-on experience in the above areas, who are committed to applying state-of-the-art science and technology to address the challenges of biopharmaceutical manufacturing.

### STAFF SCIENTIST/PRINCIPAL SCIENTIST (SC4-LL-SH)

Seeking candidates with at least three years of experience in the design and characterization of mammalian cell culture expression systems, with an emphasis on high yield expression of recombinant glycoproteins. A Ph.D. in Cell Biology, Biochemistry or Biochemical Engineering with training in basic molecular biology is highly desirable. Ability to work well in a team environment is critical, and excellent written and verbal communication skills are required.

### STAFF SCIENTIST/PRINCIPAL SCIENTIST (SC4-LL-SH2)

Seeking candidates with at least three years of experience in the characterization of microbial or mammalian expression systems. This position requires expertise in a broad range of analytical methods and hands-on experience in applying those methods to study the expression, secretion and post-translational modifications of recombinant proteins. A Ph.D. in Cell Biology, Biochemistry or Biochemical Engineering with training in basic molecular biology is highly desirable. Ability to work well in a team environment is critical, and excellent written and verbal communication skills are required.

### POSTDOCTORAL FELLOW (SC4-LL-MS)

The primary goal of this fellowship is to extend our understanding of protein tyrosine sulfation in Chinese hamster ovary cells. This project will involve cloning of relevant CHO sulfo transferase enzyme(s) and subsequent studies of cellular regulation of transferase expression and catalytic activity. We are seeking candidates with training in cell biology and biochemistry and in molecular biology. Suitable candidates should also have a demonstrated interest in cellular pathways responsible for posttranslational modifications of secreted proteins.

## BIOPHARMACEUTICAL CHARACTERIZATION & ANALYSIS

This department is focused on the development and application of analytical technologies for the characterization and analysis of recombinant glycoproteins.

### MASS SPECTROMETRY LABORATORY HEAD (SC4-LL-HS)

Seeking a Ph.D.-level scientist with extensive knowledge in biochemical mass spectrometry to lead the mass spectrometry group within the department. The candidate should have relevant experience and expertise in biochemical structural analysis as applied to glycoproteins. The mass spectrometry group focuses on the development and application of mass spectrometry for the structural analysis of proteins, glycoproteins and carbohydrates. The candidate will help to define and implement MS-based strategies for the analysis of recombinant therapeutics. Candidates should be comfortable working at the interface of analytical chemistry, biochemistry and cell biology. Additional experience in chromatographic separation methods (electrophoretic and chromatographic) micro-sample handling techniques or other methods for protein and carbohydrate structural analysis is beneficial. Prior experience in the biopharmaceutical industry is desirable. The candidate should have excellent communication skills and the ability and desire to work in a multidisciplinary, team-oriented environment.

## THE DRUG PRODUCT DEVELOPMENT GROUP

This team consists of protein chemists, process engineers and manufacturing personnel focused on the development of stable, manufacturable, user-friendly dosage forms for all of Genetics Institute's products.

### SCIENTIFIC STAFF (SC4-LL-GA)

An exciting opportunity exists for an analytical protein chemist to develop and understand the dosage forms of a modified form of recombinant Factor VIII (rVIII SQ). This individual will coordinate a team effort in understanding the stability of the protein, develop appropriate analytical methods, and function as a member of an interdisciplinary team focused on the development and manufacture of safe, effective dosage forms of rVIII SQ. Qualified candidates should possess a Ph.D. in Biochemistry, Analytical Chemistry or related field with 3-5 years of demonstrated work experience or an MS with 10+ years of experience. A strong background in HPLC and electrophoretic methods development is required. Strong interpersonal and communication skills are essential. Experience in dosage form development, lyophilization or coagulation factors is helpful but not essential.

### STAFF SCIENTIST, DELIVERY MATRIX DEVELOPMENT (SC4-LL-191)

Seeking an individual to lead a group responsible for development and characterization of Bone Morphogenetic Protein (BMP) delivery matrices. This includes matrices based on collagen and hydroxyapatite, as well as other materials. Responsibilities include: determining critical features of the matrices with regard to biological efficacy; understanding the nature of the interaction of BMP with the matrices; and helping to develop manufacturing processes for the matrices that reproducibly yield material with the desired properties. Requires a Ph.D. degree in Pharmaceuticals, Biochemistry or a related field, with relevant postdoctoral experience (industrial or academic). Experience with collagen characterization as well as with characterization of drug delivery matrices is highly desirable. We also have openings in this area for individuals with BS/MS degrees and relevant experience.

### STAFF SCIENTIST, LYOPHILIZATION DEVELOPMENT (SC4-LL-DPD)

Exciting opportunity within our Drug Product Development group for an individual to participate in lyophilization cycle development for protein parenterals. Work with our formulation scientists to develop robust formulations and lyophilization cycles for new product candidates and to understand and optimize existing cycles. Requires a minimum of a Ph.D. in a scientific or engineering field, and three or more years of experience in lyophilization technology are required; knowledge of physical biochemistry of proteins and relevant analytical techniques (DSC, X-ray diffraction, freeze-drying microscopy) is desirable.

For additional opportunities, visit our web site at:  
[www.genetics.com](http://www.genetics.com)

To be considered for current or future job openings, please mail or fax your resume, indicating job code, to: Genetics Institute, Inc., Resume Processing Center, Job Code: \_\_\_\_\_, P.O. Box 385, Burlington, MA 01803. Fax: (978) 623-2607

Scannable copies should be forwarded on plain white bond paper, using standard types and fonts, and no bold or italic print. When faxing, please also mail the original copy to the above address.

Genetics Institute is a wholly owned subsidiary of American Home Products Corporation and offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks' paid vacation, 401(k), pension plan, relocation assistance, tuition assistance, dependent care subsidy, and an on-site exercise facility. Genetics Institute is proud to be an equal opportunity, affirmative action employer, dedicated to building strength through diversity.

GENETICS  INSTITUTE®

*Harnessing The Body's Power To Heal™*



# Postdoctoral Training Opportunities

## Albert Einstein College of Medicine Comprehensive Cancer Center

Postdoctoral positions are available for highly motivated applicants with strong backgrounds in the molecular sciences who wish to join the laboratories of cancer center investigators engaged in collaborative multidisciplinary cancer research programs:

**The Biology of Colon Cancer:** Colonic cell differentiation, cell-cycle regulation, apoptosis and aberrancies that arise in the initiation and progression of colon cancer. Studies encompass cell culture, mouse genetic models, and human populations. **Dr. Leonard Augenlicht**

**Human Papillomavirus:** These studies are directed to exploring the humoral response to cervical HPV infections and characterization of viral integration sites. **Von Hippel-Lindau tumor suppressor gene function:** Investigation of the biochemistry and function of VHL protein(s) in altering cell growth. **Dr. Robert Burk**

**The Molecular Genetics of Folate Transporter:** Cloning of folate transporters, structure-function analyses by mutagenesis, and the development of knock-out mouse models to study the role of folate transport genes in development and carcinogenesis. **Dr. I. David Goldman**

**Cellular Responses to DNA Damage:** Studies on the DNA damage-induced cell cycle checkpoint using a novel cell-free assay and human base excision repair of chromatin templates. **Dr. Mark K. Kenny**

**Genetic Analysis of Checkpoints:** Mechanisms that delay cell cycle progression in response to DNA damage, replication block or spindle defects - utilizing fission yeast and mammalian models. **Dr. Tomohiro Matsumoto**

**Development and Pharmacology of Inhibitors of Tumor Angiogenesis:** Regulation of genes involved in angiogenesis and the design of novel inhibitors based upon molecular structure analyses. **Dr. Edward Schwartz**

**Pharmacologic Modulation of Growth Regulatory Pathways:** Development of cell lines with altered expression of cyclins and their associated kinases for the evaluation of novel inhibitors. **Dr. Scott Wadler**

**Mechanisms of Transcription:** Studies of transcriptional activation, structure-function analyses of a tetratricopeptide repeat-containing transcription factor, thermodynamic and kinetic studies on pre-initiation complex assembly. **Dr. Ian M. Willis**

The Einstein Comprehensive Cancer Center is an NCI designated cancer center with more than one hundred faculty members organized in ten collaborative research programs directed to basic, clinical and translational studies on the genesis, prevention and treatment of cancer. There are thirteen core laboratory facilities that support all aspects of molecular-based research, with special capabilities in molecular technologies and the development of transgenic and knock-out mouse models. There is an extensive program of research seminars, work-in-progress sessions and formal courses available to trainees.

The College of Medicine is located in a residential area of the Bronx with easy access to the cultural opportunities of Manhattan and recreational activities of the Long Island Sound and New England.

Candidates should identify the name(s) of the researcher to whom they are applying and send their C.V. with three letters of reference: **c/o Ms. Judi Roth, The Albert Einstein Comprehensive Cancer Center, Jack and Pearl Resnick Campus, Chanin Two, 1300 Morris Park Avenue, Bronx, NY 10461. Fax: 718-430-8550; E-mail: aeccc@ecom.yu.edu** - electronic C.V.'s will only be accepted as attachments in Word for Windows, PC versions. EOE.

**ALBERT EINSTEIN  
COLLEGE OF MEDICINE**

Toward the  
advancement of medicine  
...and your career



BARBARA ANN  
**KARMANOS**  
CANCER INSTITUTE



### FACULTY POSITIONS: DEVELOPMENTAL BIOLOGY

**ASSISTANT, ASSOCIATE, AND FULL PROFESSORS**—Wayne State University is expanding its research and training programs campuswide in developmental biology, through the efforts of the College of Science, the School of Medicine, and the Barbara Ann Karmanos Cancer Institute. Positions are available on both the tenure track and University-funded research track. Candidates should be established independent investigators or show promise of being able to launch a competitive extramurally funded research program. Excellent research laboratories and support facilities are available as well as generous start-up packages.

Applicants should send a complete curriculum vitae, a brief description of current and future research (3 pages), and recommendations from at least three references to:

**Joint Search Committee in Developmental Biology**  
c/o Dr. Jack Lilien  
Wayne State University  
5047 Gullen Mall  
Detroit, MI 48202-3917  
<http://sun2.science.wayne.edu/~devbio>

*Wayne State University School of Medicine, the country's  
largest single-campus medical school,  
is an Equal Opportunity/Affirmative Action Employer.*

## SCIENTIST

Molecular Biosystems, Inc., a leader in the development and manufacture of contrast imaging agents for ultrasound, is seeking a highly motivated individual to join the Technical Development Team.

Responsibilities include leading the development of current & future products, including product characterization by chemical & biochemical methods, packaging & shipping studies & process improvements.

Req's a Ph.D. in Biochemistry or Bioengineering with 5+ yrs laboratory experience in an industrial R&D environment. Must have excellent written & oral communication & organizational skills, supervisory experience, & the ability to travel.

MBI offers a competitive compensation program, comprehensive benefits package & a professional working environment. Send résumé to:

**Molecular Biosystems, Inc.,**  
Attn: HR Dept, A47-98  
10030 Barnes Canyon Road  
San Diego, CA 92121



*Equal Opportunity Employer.*

**Donald and Dorothy Jaffar  
Research Chair in Urologic Oncology**

In collaboration with the Barbara Ann Karmanos Cancer Institute and the Wayne State University Prostate Initiative, the Department of Urology seeks an accomplished individual at the level of associate or full professor for appointment to the Donald and Dorothy Jaffar Research Chair for Urologic Oncology. This position carries a tenured faculty appointment with a competitive salary and significant start-up package.

The successful candidate will have outstanding achievements in urologic oncology research and a specialized research interest in one of the following areas: prognostic markers, suppressor genes, apoptosis, cellular signaling mechanisms, angiogenesis, or invasion and metastasis.

The individual holding the Donald and Dorothy Jaffar Research Chair for Urologic Oncology will be responsible for directing urologic oncology research at the basic and translational levels in the Department of Urology. He or she will also interface with the Genitourinary Oncology Program of the Barbara Ann Karmanos Cancer Institute and the Wayne State University Prostate Initiative.

Successful applicants should possess the degree of M.D., Ph.D., or M.D./Ph.D. with specialized training in cellular biology, molecular biology, or genetics, and will qualify for the faculty appointment of associate or full professor of Urology. Applicants must demonstrate a proven track record of successful competition for extramural support, preferably in the area of prostate cancer.

This position is available immediately. Applicants should submit a detailed statement of research interests and objectives and 3 letters of recommendation to:

**David Wood, Jr., M.D.**  
**Professor of Urology and**  
**Program Leader,**  
**Genitourinary Oncology**  
**Barbara Ann Karmanos**  
**Cancer Institute**  
**4160 John R, Suite 1017**  
**Detroit, MI 48201**

**Phone: (313) 745-7381**

The Barbara Ann Karmanos Cancer Institute sees 8,500 new cancer patients a year and has an annual operating budget of \$185 million. With more than 1,200 staff members and 3,300 volunteers, the Institute oversees cancer care at 53 facilities throughout southeastern Michigan, including hospitals, outpatient centers, and health education/patient service outreach offices. The Institute operates one of 29 National Cancer Institute-designated comprehensive cancer centers, and one of 13 SEER registries. The Wayne State University Prostate Initiative is a multi-million dollar developmental program among 6 university departments and centers.

*The Institute and Wayne State University are culturally diverse institutions. Applications from all qualified female and minority faculty are encouraged.*

*Wayne State University School of Medicine, the country's largest single-campus medical school, is an Equal Opportunity/Affirmative Action Employer.*

# THE BAYER FACTS:



## Bayer:

**A premier  
healthcare  
company  
for the  
21st century.**

Our business is  
to significantly improve  
health worldwide.

People are the heart  
of our company.

Our corporate  
culture inspires  
and commits all  
to do their best.



**Pharmaceutical  
Division**

**Biological Products**

# SCIENTISTS

■ 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 Clayton facility is the largest of its kind in the world and is primarily involved in the manufacture of **Biological Products**. Currently, we have the following positions available in the **Research Triangle Area**.

## SENIOR RESEARCH SCIENTIST

- The incumbent will be responsible for the application of assays for the detection of the agent responsible for transmissible spongiform encephalopathies.
- To qualify, you must have a Ph.D in a relevant life science and at least 4 years of research experience, preferably in an industrial research environment. You must also have experience in 2 or more of the following areas: assay development, immunoassays, animal/tissue culture bioassays and protein chemistry. In addition, expertise in dealing with infectious agents is preferred. Good communication skills, supervisory experience, technical writing skills, computer literacy, and versatility to work within goal-oriented teams while managing multiple projects is essential. RESPONSE CODE: 98-36

## STAFF SCIENTIST

- In this position, you will be responsible for leading a team of scientists in the discovery and development of novel viral detection and inactivation technologies.
- To qualify, you must have a Ph.D in virology, molecular biology or biochemistry with at least 6 years of relevant experience preferably in the pharmaceutical industry. Candidates with applied experience in the fields of viral inactivation and/or antivirals will be strongly considered. In addition, expertise in dealing with human pathogens is preferred. Good communication skills, supervisory experience, technical writing skills, computer literacy, and the versatility to work within goal-oriented teams while managing multiple projects is essential and expected. RESPONSE CODE: 98-35
- Please forward your resume (indicating response code) including salary history to: **RF/Human Resources Administrator, Bayer Corporation, Pharmaceutical Division, P.O. Box 507, Clayton, NC 27520**. No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/cm/bayer/>
- An Equal Opportunity Employer M/F/D/V. Bayer Corp. is committed to enhancing and maintaining cultural diversity within our work environment.



# Dean of Mathematics & Natural Sciences

Queens College of the City University of New York invites applications and nominations for the position of Dean of Mathematics and Natural Sciences. The dean will serve as chief administrative officer for the Division, which has approximately 3,300 undergraduate and 400 graduate students.

The following departments, with more than 125 full-time faculty, report to the Dean of Mathematics and Natural Sciences: Biology; Chemistry and Biochemistry; Computer Science; Family, Nutrition, and Exercise Sciences; Geology (soon to become Earth and Environmental Sciences); Mathematics; Physics; Psychology. The dean also works closely with the Center for the Biology of Natural Systems, headed by Dr. Barry Commoner, and the newly established Center for Molecular and Cellular Biology, headed by Dr. Luc Montagnier. The dean reports to the Provost and participates in College-wide policy and planning discussions. The Division receives more than \$4 million in external funding annually.

Queens College is a highly selective urban college that offers its 17,000 students affordable access to outstanding programs in liberal arts and professional fields. The College offers 53 undergraduate/48 master's degree programs and is a major participant in the consortial model of doctoral education of the Graduate School and University Center of the City University of New York. Two doctoral programs in Psychology are resident on the Queens College campus. In addition, each year there are many doctoral students in the sciences who carry out dissertation research at the College. Located on an attractive 76-acre campus in the urban/suburban borough of Queens, the College is close to both the vibrant cultural life of Manhattan and the attractive residential areas of Long Island.

Candidates should have distinguished records of scholarship/teaching that would qualify them for appointment as full professor in one of the Division's departments. Significant administrative experience, preferably as a dean or department chair, and strong evidence of leadership ability are expected. Experience with grants and private fundraising desirable. Candidates are expected to have a strong commitment to public higher education in an urban environment.

Please send nominations or letters of interest with curriculum vitae and names of 5 references by April 23 to: Office of the Academic Senate, Box S, Queens College, Flushing, NY 11367-1597. AA/EOE/ADA

## QUEENS COLLEGE



## United States Environmental Protection Agency Postdoctoral Positions National Center for Environmental Assessment

The U.S. Environmental Protection Agency (EPA), Office of Research and Development (ORD) is seeking candidates to fill as many as 50 Federal, three-year postdoctoral research positions during the coming year. As part of this effort, a number of these positions will be filled at the EPA's National Center for Environmental Assessment (NCEA), with divisions in Washington, D.C. Research Triangle Park, N.C., and Cincinnati, OH. NCEA serves as the national resource center for the overall process of human health and ecological risk assessments, integrating hazard, dose-response, and exposure data models to produce risk characterizations. NCEA occupies a critical position between laboratory/field researchers and the regulators in EPA program offices and regions who must make regulatory, enforcement, and remedial action decisions. Work is focused in three major areas: development of dose-response, exposure, and probabilistic methodologies that reduce uncertainties in current approaches; conducting risk assessments of contaminants and sites of national significance; and providing guidance and support to risk assessors. Priority research interests include ecological risk assessment methodologies, guidance, and applications; global climate change, atmospheric sciences, and human, ecological, and disease vector impacts; environmental fate and transport modeling, including geographic information systems; reproductive, developmental, endocrine, immunological, neurological, and inhalation toxicology; PBPK/BBDP modeling; molecular mechanisms of carcinogenicity; cancer and noncancer epidemiology and statistical modeling.

The postdoctoral positions are to be three-year term appointments that will begin in September 1998 at a salary range of \$38,593-\$60,135, commensurate with qualifications. Selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave. *United States citizenship is a requirement for all of these positions.* The preferred candidate will have earned a Ph.D. in one of the above disciplines within the past five years.

To apply for NCEA postdoctoral positions, please send a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus to **Dr. Bruce Rodan (8601D), ATTN: Postdoctoral Positions, National Center for Environmental Assessment, U.S. Environmental Protection Agency, 401 M Street SW, Washington DC 20460**. The deadline for receipt of applications by NCEA is April 30, 1998. After all responses are reviewed and appropriate interviews held, applicants who have been selected for positions will receive written notification no later than July 15, 1998.

For more information on the complete EPA postdoctoral program, please access the Office of Research and Development Internet site at <http://www.epa.gov/ord>.

*The U.S. EPA is an Equal Opportunity Employer.*

## GLOBAL OPPORTUNITIES

### Postdoctoral Fellows



### CSIRO Plant Industry, Australia

**A\$42K - A\$48K  
+ Superannuation**

We are seeking highly motivated people for a number of Post Doctoral Fellow positions. You will be conducting innovative strategic research in one of the following areas - plant, grain or fruit development and growth, plant response to stress, plant and crop physiology and ecology, systematics or evolutionary biology. Applicants will have a commitment to science as a career and should have skills in one of the following areas - molecular biology, cell biology, genetics, biochemistry, plant pathology or applied mathematics. An information package and selection documentation can be obtained by faxing **61 2 6246 5000** or email [recruit@pi.csiro.au](mailto:recruit@pi.csiro.au), or via our web site <http://www.pi.csiro.au/>

Applications close **6 April 1998**.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

3579

### Focus on Careers: Scandinavia 19 June 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:**  
2 June 1998

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

**SCIENCE**  
[www.sciencemag.org](http://www.sciencemag.org)

HELPING YOU REACH THE BEST IN  
EUROPE - AND AROUND THE WORLD.

## SUGEN:

### The Cure Is Out There

*Cancer. Diabetes. Life-threatening neurological and immune system disorders. At SUGEN, we're applying our signal transduction-based drug discovery platform to a number of disease targets. We already have several promising compounds moving through our product pipeline. The cure is out there. Join us as we find the answers and create the next era in biopharmaceutical research and development.*

## DRUG DISCOVERY

### DIRECTOR, LEAD IDENTIFICATION

Reporting to the VP of Drug Discovery, responsibilities include target validation, assay development, screening operations, cancer therapeutics, medicinal chemistry and preclinical development. Requires a PhD in Biology, Chemistry or equivalent and at least 5-10 years experience in the pharmaceutical industry, including the discovery and development of signal transduction therapeutics. Relevant experience should include proven accomplishment in the discovery of synthetic pharmaceuticals modulating tyrosine or serine/threonine kinases, tyrosine phosphatases, hormone receptors, G-coupled protein receptors, cytokine or TNF receptors. Must have a solid patent and publication record, utilizing pharmaceuticals to effect signal transduction targets, as well as strong presentation skills. Knowledge of the biology of signal transduction targets and cellular growth control and survival is also required. Dept. JM-SCI.

### ASSOCIATE DIRECTOR, MEDICINAL CHEMISTRY

We seek a highly motivated individual to lead the Medicinal Chemistry Group in the discovery of novel tyrosine kinase and phosphatase therapeutics. Requires a PhD in Organic Chemistry or equivalent and a minimum of 10 years post-graduate/industrial experience in medicinal chemistry. A proven record of pharmaceutical patent/publications illustrating lead discovery and participation in the generation of lead compounds are essential, as is experience generating clinical-stage drug candidates. Must have knowledge of the following: lead optimization and structure-activity relationships, chemical stability and metabolism, oral bioavailability and formulation, and basic pharmacokinetics. Excellent organizational and communication skills are important. Dept. CT-SCI.

### SCIENTIST, COMPUTATIONAL CHEMISTRY

Working closely with medicinal chemists, biochemists, and molecular biologists, you will provide theoretical insights to expedite lead discovery and optimization processes. Responsibilities include QSAR, pharmacophore generation, database management/research, structure-based drug design, and small and macromolecular modeling. Requires a PhD in Computational Chemistry and 1-3 years experience. Knowledge of computer programming and UNIX administration is a plus. Dept. CL-SCI.

### ASSOCIATE SCIENTIST, SCREENING OPERATIONS

You will evaluate chemical compounds and natural products for the ability to effect tyrosine kinase, serine/threonine and tyrosine phosphatase targets. As part of an interdisciplinary team, you will contribute to the implementation and operation of drug screening assays. Requires a PhD with industrial experience in the implementation/performance of assays to evaluate large numbers of samples. Must have strong background in biochemistry or molecular biology and experience in developing drug screening assays. Familiarity with fluorescence, colorimetric, or radioactive detection technologies is preferred. Dept. FT-SCI.

In the last quarter of 1998, we will be moving to a 100,000 square-foot, state-of-the-art facility in South San Francisco. We offer competitive salary and benefits including stock options. Please send resume to Human Resources, Dept. \_\_\_\_ SUGEN, Inc., 351 Galveston Drive, Redwood City, CA 94063. EOE.

## SUGEN



## POSTDOCTORAL RESEARCH

The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, currently seeks postdoctoral applicants.

**Postdoctoral Researcher** - Position available in Transcriptional Regulation. Function of histone acetylation by the adapter GCN5 in transcriptional activation. Studies include genetic and biochemical approaches both in *S. cerevisiae* and in humans, focusing on the mechanism and biological role of protein complexes containing GCN5. **Reply to Dr. Shelley L. Berger.**

**Postdoctoral Researcher** - Conduct molecular virology studies of herpes simplex virus latency utilizing a mouse model system. We are also studying the use of HSV in gene therapy and cancer therapy. **Reply to Dr. Nigel Fraser.**

**Postdoctoral Researcher** - Study the effects of simulated microgravity on growth and differentiation of cultured human osteoblast-like cells and vascular cells as well as on cardiovascular development in a murine model system. The candidate selected will participate in a Multidisciplinary Program on Cells, Tissues, and Mammalian Development headquartered at Wistar and encompassing the efforts of seven major labs at Wistar and the University of Pennsylvania. **Reply to Dr. Elliot Levine.**

**Postdoctoral Researcher** - To study (1) Mechanism of transcriptional activation by the Epstein-Barr virus lytic activator, Zta, which recruits TFIIA and coactivators to induce conformational changes in TFIID. (2) Cell cycle control of EBV DNA replication by the EBNA1 origin binding protein. Candidates should have less than two years of postdoctoral experience and have training in biochemistry, molecular biology, or yeast genetics. **Reply to Dr. Paul Lieberman.**

**Postdoctoral Researcher** - Available for crystallographic studies of proteins and macromolecular assemblies associated with transcription, cell cycle, and cancer (Nature Struct. Biol. 4: 751-759, 1997; J. Biol. Chem. 272: 27324-27329, 1997; Nature Struct. Biol. 5: 74-81, 1998.) The laboratory uses a combination of molecular, biochemical, biophysical, and structural techniques. Prior experience in X-ray crystallography is preferred. **Reply to Dr. Ronen Marmorstein.**

**Postdoctoral Researcher** - Postdoctoral position to investigate at a cell and molecular level the concept of control by protein segregation using several DNA viruses as probes. Also immediate early interaction of viruses and host nucleus with the aim to interrupt transcription at the virus deposition site in the nucleus (J. Cell. Biol. 134:815-825, 1996; J. Cell. Biol. 138:5-16, 1997). Good background in molecular techniques essential. **Reply to Dr. Gerd Maul.**

**Postdoctoral Researcher** - Molecular neuroscience: investigation of signal transduction and the regulation of growth and function of cells in the central nervous system. A background in neuroscience and expertise in molecular and cell biology, tissue culture, and signal transduction are desirable. **Reply to Dr. F. Arthur McMorris.**

**Postdoctoral Researcher** - (1) HIV-1 Vaccine Development: Cytokine adjuvancy for HIV-1 vaccine development — emphasis on regulatory mechanisms of antigen presentation (exp. w/murine models and mol. immunol. pref.). (2) HIV-1 Immunopathogenesis: Viral and immunopathology studies focused on patient-derived material from ongoing clinical trials and in vitro models of macrophage and T-cell infection by HIV-1. **Reply to Dr. Luis J. Montaner.**

**Postdoctoral Researcher** - RNA editing of GluR ion channel gene transcripts in mammalian brain; the molecular mechanism and its relevance to neurological disorders such as Alzheimer's and epilepsy. Previous experience in molecular techniques required. Degree received within the last three years preferred. Mol. Cell. Biol. 17:2413 (1997). EMBO J. 15:34 (1996). **Reply to Dr. Kazuko Nishikura.**

**Postdoctoral Researcher** - Two positions available. Includes synthesis, biochemical, biophysical, and immunological characterization of model as well as "real-life" glycopeptides and phosphopeptides. Some peptides will be further modified to obtain compounds with the highest biological activity and stability. The properties of the peptides corresponding to natural phosphoproteins and glycoproteins will be compared with those of the full-size proteins. We are also going to launch a new line of investigations involving the chemistry and applications of peptide nucleic acids. Strong organic chemistry skills and knowledge of peptide analysis, chromatography, and spectroscopy are required. The candidates should have a Ph.D. in Organic Chemistry or, less preferably, in Biochemistry. **Reply to Dr. Laszlo Otvos.**

**Postdoctoral Researcher** - Several positions available for individuals interested in transcription regulation mediated by oncogenes/tumor, suppressor gene products. Specific projects include: (1) Molecular analysis of a newly cloned novel co-repressor of the KRAB domain, KAP-1 (Genes Dev. 10: 2067-2078, 1996). (2) Engineering transcriptional repressors utilizing PAX, ETS, and zinc-finger-type DNA binding domains which inhibit malignant conversion and growth. (3) Studies on BAP1, a novel tumor suppressor BRCA-1 which binds to the BRCA1 protein, (Oncogene 16: 1097-1112, 1998). The experimental approaches are comprehensive and multi-disciplinary. Highly motivated individuals possessing a Ph.D. and/or M.D. with a molecular biology/biochemistry background, having experience in reconstituted in vitro transcription, chromatin assembly, analysis of DNA binding protein function, yeast two-hybrid assays, etc., are desired, but all strong candidates will be considered. **Reply to Dr. Frank J. Rauscher, III, Professor and Chairman, Molecular Genetics Program.**

**Postdoctoral Researcher** - Two positions are available: (1) Develop and apply improved methods for analyzing complete protein profiles (proteomes) in human cancer progression. Focus will be on improving 2D PAGE, image analysis, and protein identifications using peptide mass mapping approaches. (2) Structure-function studies of MelCAM, an Ig-type cell-cell adhesion protein implicated in human melanoma development, using mutagenesis, biochemical, and cell transfection analyses. **Reply to Dr. David Speicher.**

**Postdoctoral Researcher** - Research focuses on understanding the function of Src-family tyrosine kinases using mouse knock-outs as a model. Relevant systems currently under study include T cells, keratinocytes, and brain. Highly motivated and independent individuals with experience in molecular biology/biochemistry preferred. **Reply to Dr. Paul L. Stein.**

**Postdoctoral Researcher** - Biochemical characterization of the RNA polymerase II complexes in human cells by using a fully defined in vitro transcription system. We are also characterizing the connection of the basal transcription machinery to that of DNA repair. Nature 374:283, (1995); and Nature 381:86 (1996). Motivated scientists with Ph.D. in any discipline of biological sciences with experience in molecular biological techniques and protein purification preferred. **Reply to Dr. Ramin Shiekhattar.**

Interested applicants are requested to send a CV and three letters of reference to the **Human Resources Dept., ATTN: Appropriate Staff Member, THE WISTAR INSTITUTE, 3601 Spruce St., Phila., PA 19104.** An EOE/AA/M/F/D/V.



## UNITED STATES DEPARTMENT OF AGRICULTURE



Agricultural  
Research  
Service

### Formosan Subterranean Termite Research Unit Research Chemists/Microbiologists/ Entomologists/Engineers

The Southern Regional Research Center, New Orleans, Louisiana is establishing a Formosan Subterranean Termite Research Unit consisting of an interdisciplinary team to evaluate and improve methods for the detection and control of the FST, and develop novel toxicants and control technologies. Scientists will work in a well funded program in a fully equipped newly renovated facility employing approximately 90 scientists having a wide range of scientific disciplines. Positions available immediately are listed below.

**Supervisory Research Entomologist/Microbiologist/Chemist/Ecologist - GS-14/15** - As Research Leader, the appointee directs an interdisciplinary unit emphasizing cooperation in chemical ecology; nutrition; physiology; microbiology; evaluations of novel toxicants; physical barriers; and engineering for termite control. The Unit will consist of 8 Research Scientists and numerous support personnel. The position requires scientific and technical knowledge to identify, focus, and prioritize a broad spectrum of approaches, and knowledge and skill in the management of human and physical resources. Applications must be marked with announcement # ARS-D8S-8104.

**Research Chemist - GS-12/13/14** - to develop understanding of pheromones and other semiochemicals and their relation to insect behavior with an eye toward utilizing such chemicals in an integrated program of FST population management and control. Knowledge of insect biochemistry and physiology is required. Applications must be marked with announcement # ARS-D8S-8058.

**Research Entomologist (Field Ecologist) - GS-12/13/14** - quantitate termite populations and validate measures of termite control efficacy in large-area tests. Knowledge of integrated pest management strategies in urban settings and in urban and suburban forest ecosystems, and knowledge of insect control methodologies. Applications must be marked with announcement # ARS-D8S-8057.

**Research Entomologist (Nutritionist) - GS-12/13/14** - determine termite nutritional requirements to enhance consumption and directed targeting of termites to bait stations to improve control. Knowledge of insect field population characterization and quantitation and of termite or insect nutritional requirements. Applications must be marked with announcement # ARS-D8S-8056.

**Mechanical Engineer - GS-12/13/14** - improve bait stations, physical termite barriers for directing termites, and develop strategies for the effective placement of the bait stations. Knowledge of the fundamental and practical aspects of structural engineering, and pre- and post-construction management practices for improved termite control. Applications must be marked with announcement # ARS-D8S-8059.

**Additional positions will include:** 1) Toxicologist to investigate new chemistries for termite control, 2) Microbiologist who will investigate intestinal microflora and/or pathogens as potential biological control agents; and 3) Behaviorist to determine attractiveness/repellency of plants/microbes or their metabolites, responses to control or detection measures, and behavioral effects of sublethal doses of toxins to effect colony control.

**POSITION REQUIREMENTS:** Must be a U.S. citizen. Ph.D. degree is desirable. Must have demonstrated research accomplishments in the research area. Salary commensurate with experience.

**SALARY RANGE** - GS-12 - \$46,254-\$60,135; GS-13 - \$55,004-\$71,503; GS-14 - \$64,998-\$84,495; GS-15 - \$76,456-\$99,397. Further details, contact **Dr. Alan Lax, USDA, ARS, SRRC. Telephone: 504-286-4472. E-Mail: alax@nola.srrc.usda.gov.** For information on application procedures, contact **Karen M. Benedict, telephone 301-344-3955 or E-Mail - kbenedict@ars.usda.gov.**

Applications in response to this advertisement must be marked with the announcement # and sent to: **Karen M. Benedict, USDA, ARS, HRD, Southern Operations Branch, 6305 Ivy Lane, Room 345, Greenbelt, MD 20770. Applications must be postmarked by April 13, 1998. ARS is an Equal Opportunity Employer.**

## GENETIC THERAPY, INC.



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

### Senior Scientist I

Candidate will be responsible for developing downstream processes of viral vectors, including concentration, ultrafiltration, chromatographic purification, formulation and lyophilization. A successful candidate will have a Ph.D. in Biochemical Engineering, Biochemistry or related field with a minimum of 4 years related biotechnology experience; or equivalent. Familiarity with scale-up of viral vector purification technologies is necessary. Cell culture and GMP experience is desired. (Job Code: 256-022-8)

### Scientist III

Individual will validate downstream processes for retro and adenoviral vector purification and formulation. Experience with large-scale bioreactors, column chromatography and ultrafiltration systems is desired. Responsible for the technical writing of process validation procedures and the technology transfer of processes into manufacturing. Experience in mammalian cell culture is desired. Applicant must have a B.S. in a biological science and 4 years of relevant experience; or equivalent. (Job Code: 255-026-8)

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

GENETIC THERAPY, INC.  
938 Clopper Road, Gaithersburg, MD 20878  
Fax: (301) 208-2481  
E-mail: gti.jobs@pharma.novartis.com



## Opportunities with ZymoGenetics

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant. Our mission is to identify protein therapeutic opportunities and to take selected projects as far as clinical proof of concept studies. We are currently seeking qualified candidates for the following position:

### Medical Director

This opportunity is suitable for an MD with clinical trials experience who is seeking a career growth opportunity. Responsibilities include negotiating, organizing and running clinical studies in conjunction with CROs while ensuring the integrity of the studies, writing appropriate regulatory submissions, clinical trial reports and summaries, as well as providing medical advice and input into research projects and product design. You will interact closely with the preclinical studies group and be an integral part of a small development team. The ideal candidate will have experience in protocol development, clinical trial organization and preclinical study needs and designs. Additional requirements include broad-based medical experience, experience in the interaction and dealing with CROs, and a sound understanding of both US and European clinical trial regulations.

As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package. Please apply by sending a cover letter noting **Job reference #41N198** and a detailed resume of your work experience and academic background to: ZymoGenetics, Inc., Human Resources, 1201 Eastlake Ave. East, Seattle, WA 98102. ZymoGenetics is committed to equal opportunity and diversity.

# ZYMOGENETICS



## Bristol-Myers Squibb Company

Bristol-Myers Squibb, an internationally recognized leader in the research, marketing and manufacturing of innovative pharmaceuticals, has exceptional opportunities for Associate Scientists in its Syracuse, New York facility.

### BIOTECHNOLOGY DEVELOPMENT ANALYTICAL DEPARTMENT

#### Associate Scientist/Scientist – B.S., M.S., Ph.D.

The successful candidate will lead a team of 2-4 scientists in analysis of biopharmaceuticals. Responsibilities will include developing and implementing methods for analysis of glycoproteins and their carbohydrate structures, as well as evaluating, recommending and implementing new analytical technologies. You will also maintain up-to-date awareness of the appropriate literature.

The successful candidate should have a B.S., M.S. or Ph.D. in Chemistry, Biology or related field with experience in analysis of glycoproteins and supervision of technical staff. Experience in independent experimental design, interpretation and report writing is required. Experience with GMP requirements would be an asset. **Code: 98-0000844**

#### Associate Scientist – B.S., M.S.

The successful candidate will supervise a team of 2 scientists in HPLC analysis of small molecule antibiotics and analytical support of biopharmaceutical development projects. Specifically, you will perform testing of biopharmaceuticals, run routine assays and evaluate data, perform validation studies and write reports. The goal is to maintain and improve high-throughput quantitative assay support.

The successful candidate should have a B.S. or M.S. degree in Biology, Chemistry or related field with experience in analytical science and supervision of technical staff. Experience with analysis of proteins and GLP/GMP requirements would be an asset. **Code: 98-0000843**

Bristol-Myers Squibb offers a challenging environment and competitive benefits package, including 401(k) plan. Please forward your resume to: **Bristol-Myers Squibb, Manager Human Resources, Ad Code: \_\_\_\_\_, P.O. Box 4755, Syracuse, NY 13221.** Equal Opportunity Employer, M/F/D/V.



Acacia Biosciences is a functional genomics company dedicated to reinventing the drug discovery process through the use of patented technology that generates comprehensive, genome-wide profiles of promising small molecules and biologics against entire disease pathways.

### BIOINFORMATICS MANAGER

We have two positions for individuals with a background in computational biology. You will work in a small group developing state-of-the-art software for the analysis of functional genomics data. The database manager will develop systems to control the flow of information from laboratory experiments and instruments to our proprietary gene expression analysis system. The interface manager will create WWW-based tools to provide our research staff and corporate partners with novel methods to explore our data. Both positions require an advanced degree in information science or molecular biology. Experience using the C programming language in a UNIX environment is essential. Familiarity with Internet security issues is desired.

To apply, please send C.V./résumé to:

**Human Resources, Acacia Biosciences, Inc., 4136 Lakeside Drive, Richmond, CA 94806. Fax: 510-669-2334; e-mail: hr@acaciabio.com. EOE.**



**PowderJect Vaccines, Inc.**, a wholly owned subsidiary of PowderJect Pharmaceuticals, PLC, is seeking highly motivated individuals to join an outstanding research team in the development of DNA and conventional vaccines. PowderJect Vaccines has developed a distinctive technological expertise focused on the use of particle delivery to generate immune responses which have broad potential prophylactic and therapeutic utility in infectious diseases and cancer.

## SCIENTISTS

**Scientist - Immunology/Molecular Biology** - Position available to lead the DNA vaccine project. Candidates must hold a Ph.D. with at least 10 years post-doctoral experience, and preferably experience in industry. Investigators should have expertise in immunology/molecular biology with an emphasis in infectious diseases. This position reports to the V.P. of Research.

**Scientist - Immunology/Vaccines** - Position available to lead the conventional vaccine department. Candidates must hold a Ph.D. with at least 10 years post-doctoral experience, and preferably vaccine experience in industry. Investigators should have expertise in cell biology, immunology or related field with an emphasis in vaccine development. This position reports to the V.P. of Research.

**Scientist - Cellular Immunology** - Position available to lead the cellular immunology department. Candidates must hold a Ph.D. with at least 10 years post-doctoral experience, and preferably experience in industry. Investigators should have expertise in cell biology, immunology or related field with an emphasis in cell-mediated immunity. This position reports to the V.P. of Research.

## RESEARCH TECHNICIANS/ASSISTANTS (FIVE POSITIONS)

Candidates should hold a BS or MS degree in Chemistry or Biological sciences. Research experience and demonstrated capabilities in biochemistry, immunology or molecular biology are highly desirable.

PowderJect Vaccines offers a competitive salary and comprehensive benefits package. Our R&D facility, located in Madison, Wisconsin near the University of Wisconsin, provides an ideal setting for both career and lifestyle enhancement.



**POWDERJECT**  
VACCINES, INC.

Please send your resume to: **Human Resources**  
585 Science Drive,  
Madison, WI 53711 or Fax: (608) 231-6990.

## The Science of Agricultural Genetics

### SENIOR RESEARCH ASSOCIATE (Job #AB-815) Analysis Group — Protein Biochemistry

The primary responsibility of this position is the application of immunoassays and other biochemical technologies to the analysis of transgenic plants. Responsibilities also include identifying and completing critical technology development projects for immunoassays and sample preparation methods as well as designing and conducting experiments, adapting, performing and troubleshooting assay procedures and managing and analyzing data. A M.S. degree plus 4 years experience or a B.S. degree plus 6 years experience in microbiology, biochemistry, immunology or molecular biology is required. Specialized skills in protein analysis/biochemistry including immunoassays and excellent interpersonal communication skills are essential. Familiarity with transgenic plant analysis, computers, and statistical analysis is important. Exposure to plant breeding and genetics is of value. Demonstrated ability to work with limited supervision and to effectively manage others is desired.

Pioneer offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of cover letter and current resume, indicating job number, to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #AB-815), P.O. Box 1004, Johnston, IA 50131-1004. Applications received by April 6, 1998 will be assured of consideration; however, applications will be considered until the position is filled.

Pioneer Hi-Bred International, Inc., is the world leader in agricultural genetics.

Founded in 1926, we are a publicly held company that invests more than \$160 million in research and product development. Pioneer brand products are grown in almost every crop producing continent in the world. At our headquarters in Des Moines, Iowa, we're adding to our Research team.



**PIONEER HI-BRED  
INTERNATIONAL, INC.**

*An Equal Opportunity Employer*

## We've got a direct link to your recruitment success.



### Online banner advertising from SCIENCE.

Double your coverage with SCIENCE Professional Network and SCIENCE's Next Wave.

**SCIENCE Professional Network** is an online career resource including:

- A database of all job openings in the print version of SCIENCE.
- Interactive career workshops hosted by leading professionals.
- Information on SCIENCE-sponsored Career Fairs.
- A library of previously published career-related articles.

An easy-to-use search engine helps scientists quickly target the most appropriate jobs.

**SCIENCE**  
[www.sciencemag.org](http://www.sciencemag.org)

**SCIENCE's Next Wave** is an e-zine for scientists just starting their careers.

These career-related websites offer added exposure and recruitment results.

#### For more information:

**U. S.:** Gabrielle Boguslawski  
Tel: (718) 491-1607  
Fax: (202) 289-6742  
E-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org)

**EUROPE:** Debbie Cummings  
Tel: +44 (0) 1223 302067  
Fax: +44 (0) 1223 576208  
E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

**JAPAN:** Mashy Yoshikawa  
Tel: (+81) 3 3235-5961  
Fax: (+81) 3 3235-5852

**AUSTRALIA:** Keith Sandell  
Tel: (+61) 02 922-2977  
Fax: (+61) 02 922-1100

# The Future HYSEQ INC. of Genomics™

A rapidly growing public genomics company located in the heart of Silicon Valley is looking for aggressive and enthusiastic professionals who thrive in a fast-paced collaborative environment. Be a part of the team that is making substantial contributions to the discovery of human genes, with the highest throughput cDNA screening technology and the world's largest proprietary database of genomic information. If you have the following qualifications and are highly motivated, we would like to hear from you:

## SCIENTIFIC

### PROJECT LEADER:

Ph.D.'s with industrial experience in DNA cloning, PCR, hybridization, DNA diagnostic methods and informatics. The ideal candidate will have 5-10 years experience managing groups of scientists in both research and production line settings. Ability to plan, schedule and budget for projects, meet production schedules and create new systems.

**JOB CODE: MB4501**

### SCIENTIST:

Ph.D. in Molecular Biology or Biochemistry with 3+ years of post-doc experience in DNA cloning and sequence analysis, PCR production and hybridization.

**JOB CODE: FORMAT3**

### SCIENTIST:

Post doctoral scientists with experience in characterizing and delineating gene function. Ph.D. in Molecular and Cellular Biology, Biochemistry, Genetics or related fields. Demonstrated experience in a variety of molecular and cellular biology approaches including protein expression and the development of cellular assays.

**JOB CODE: DF88**

### TECHNICAL WRITER:

The ideal candidate will have excellent written and communication skills, have experience or background in preparing and evaluating scientific manuscripts. Requirements include: knowledge of MS Office, good interpersonal skills, MS or Ph.D. in Molecular Biology or Cellular Biology preferred.

**JOB CODE: TW101**

### MOLECULAR BIOLOGIST:

Job candidate with biochemistry background will study the role of human plasma proteins in cardiovascular disease and prevention. Position requires prior experience in protein analysis and purification by SDS-PAGE, Western blotting, IEF, ELISA, ultracentrifugation, and liquid chromatography. Computer data analysis and management are required. Additional skills in Molecular Biological techniques are desirable. B.S. or M.S. preferred.

**JOB CODE: SF698**

## BIOINFORMATICS

### DIRECTOR OF BIOINFORMATICS:

Responsible for the development and management of the Bioinformatics Department. The ideal candidate will manage a group of computer scientists including software engineers, statisticians, analysts, and programmers. Strong background in database management, client server technology, utility programming in UNIX environment and algorithm design and implementation. The job requires knowledge of computational analysis at a technically proficient level, scientific creativity and strong management ability. Ideal candidate should have 10+ years of experience in management of computer scientist in the biotech/pharma or computer science industry. MBA and/or Ph.D. in computer science or computational biology or related fields is helpful.

**JOB CODE: DIR101**

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

Hyseq Inc. offers competitive salary and benefits. Send, fax, or e-mail résumé with cover letter and salary history to:

Hyseq Inc. • Attn: HR Department • 670 Almanor Avenue Sunnyvale, CA 94086 • Fax: 408.524.8141 • E-mail: [hr@sbh.com](mailto:hr@sbh.com)

## COUNCIL ON SCIENCE AND TECHNOLOGY POSTDOCTORAL TEACHING FELLOWS PROGRAM at PRINCETON UNIVERSITY

The Council on Science and Technology at Princeton University is seeking applicants for its Postdoctoral Teaching Fellows Program. The program is designed to provide from one to three years of stipend support to postdoctoral fellows who wish to obtain further training in both research and teaching. The fellows will be involved in curriculum development, instructional laboratory design, and lecturing, and will work closely with an experienced master teacher. In addition, the Fellow will conduct research in the laboratory of a Princeton University science or engineering faculty member. The goal of the program is to prepare candidates for careers in both research and teaching.

Eligible candidates should have a Ph.D. or equivalent post-baccalaureate degree in one of the physical and natural sciences, or engineering, be interested and have previous experience in undergraduate teaching at a U.S. university. Before applying, applicants must first identify a research mentor from among the Princeton University science and engineering faculty, and obtain his or her agreement to act as research sponsor. Candidates will be evaluated on the basis of their previous teaching and research accomplishments. The stipend will be commensurate with experience. *Princeton University is an Equal Opportunity/Affirmative Action Employer.* Applications are currently being accepted for Fellows to begin at any time during the 1998-1999 academic year. Review of applications will begin May 1, 1998. Applications can be downloaded from the Council's Web Page (<http://www.princeton.edu/~stcweb/>) or requested from:

The Council on Science and Technology  
123 Lewis Thomas Laboratory  
Princeton University, Princeton, NJ 08544  
tel: (609) 258-4316, FAX: (609) 258-3345  
e-mail: [stcweb@princeton.edu](mailto:stcweb@princeton.edu)



HARVARD MEDICAL SCHOOL  
and  
MASSACHUSETTS GENERAL HOSPITAL



are actively recruiting

## Postdoctoral Research Fellows

with backgrounds in

Biomedical Engineering  
Physics/Biophysics  
Molecular Biology  
Optical Imaging

Oncology  
Pathology  
Physiology  
Immunology

The Edwin L. Steele Laboratory (MGH/HMS) is committed to improving detection and treatment of cancer through a better understanding of tumor pathophysiology and barriers to delivery of therapeutic agents. There are nine openings for postdoctoral fellows in any of our six main research areas:

Angiogenesis & blood flow  
Metabolic microenvironment  
Mathematical modeling

Transvascular transport  
Interstitial transport  
Cell transport

Individuals must possess a Ph.D. and/or M.D., research experience, strong organizational, interpersonal, communication, and computer skills and be prepared to work in a dynamic team environment (two year minimum commitment). Applicants should send a C.V. indicating their area of expertise, a career statement and three reference letters to: Rakesh K. Jain, Department of Radiation Oncology, Massachusetts General Hospital, Boston, MA 02114.



For more information about the research activities of the Steele Laboratory, please visit our web site at <http://steele.mgh.harvard.edu/steele/positions.html>.

The Massachusetts General Hospital is an Affirmative Action/Equal Opportunity Employer. Applications from women and members of minority groups are encouraged.



## POSITIONS OPEN

### FACULTY POSITION IN CELLULAR AND MOLECULAR PHYSIOLOGY

The Department of Cellular and Molecular Physiology at The Pennsylvania State University College of Medicine invites applications for a tenure-track faculty position at the rank of **ASSISTANT/ASSOCIATE PROFESSOR**. We are seeking candidates who are investigating the role of protein degradation in the regulation of cellular function. Significant research accomplishment and the ability to obtain independent funding are essential. Excellent opportunities exist for research collaboration as well as teaching in a medical school curriculum and participating in one or more graduate programs.

Prior to July 1, 1998, applicants should submit a curriculum vitae, reprints, statement of current and planned research interests, and letters from at least three references to: **Dr. Leonard S. Jefferson, Chairman, Department of Cellular and Molecular Physiology, College of Medicine, The Pennsylvania State University, P.O. Box 850, Hershey, PA 17033.** *Affirmative Action/Equal Opportunity Employer.*

### ANIMAL PHYSIOLOGIST

The Department of Biological Sciences, University of South Alabama seeks a broadly trained **PHYSIOLOGIST** with a strong background in organismal research for a tenure-track **ASSISTANT PROFESSORSHIP** to begin fall 1998. Candidate must have a Ph.D., a strong commitment to teaching at the undergraduate level, and plans to develop an active research program. The department has a Master's program. Duties are to teach physiology at undergraduate and graduate levels, participate in the introductory biology program, and supervise graduate and undergraduate research. Postdoctoral experience is preferred. Send curriculum vitae, statements of teaching philosophy and research goals, and names of three references to: **Dr. Judith Shardo, Biology Search Committee, Department of Biological Sciences, LSCB 124, University of South Alabama, Mobile, AL 36688-0002.** Application deadline is April 2, 1998. See our website: <http://www.usouthal.edu/biology/> for further information about the area.

*Affirmative Action/Equal Employment Opportunity/Minorities/Females/Disabled.*

## POSITIONS OPEN



DUKE UNIVERSITY MEDICAL CENTER

### NON-TENURE-TRACK FACULTY POSITION IN OPHTHALMIC GENETICS Department of Ophthalmology

Applications are invited for a non-tenure-track position as **RESEARCH ASSISTANT PROFESSOR** in the Ophthalmic Genetics Center of the Department of Ophthalmology at Duke University Medical Center. Appointment will initially be made on a two-year basis, with a possibility of renewal. The successful candidate should hold M.D., Ph.D., or M.D.-Ph.D. degree and should have a background in clinical ophthalmology, a track record of established research related to retinal and corneal diseases, as well as research experience and expertise in human molecular genetics pertaining to the eye. Expertise in histology, cell culture techniques, transmitter-receptor mechanisms, gene mapping, and positional cloning is required. Interested individuals should send a detailed curriculum vitae including description of research, recent reprints, and names of three references to: **Gordon K. Klintworth, M.D., Ph.D., Director of Research, Department of Ophthalmology, Box 3802, Duke University Medical Center, Durham, NC 27710.** *Duke University Medical Center is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and minorities.*

### ESTUARINE BIOLOGIST TENURE-TRACK ASSISTANT PROFESSOR

Ph.D. in discipline required. Must be willing to participate in environmental science degree and Master of Science in biology programs, as well as teach introductory courses. Develop courses in area of expertise at senior/graduate level and develop a 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, a member of the Texas State University System.*

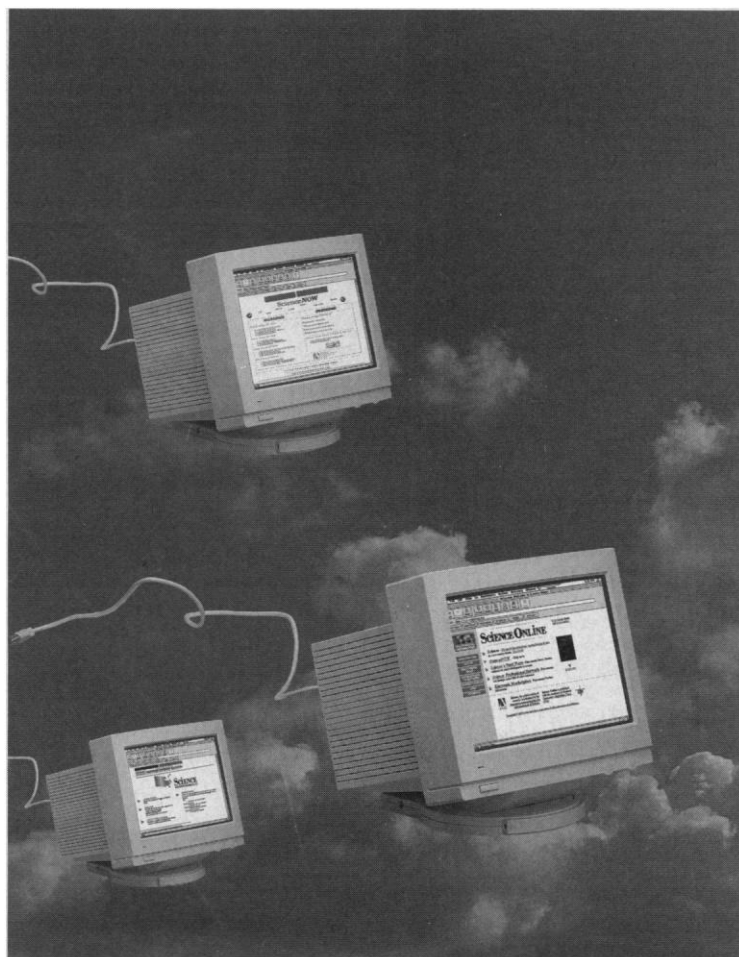
## POSITIONS OPEN

### MOLECULAR/CELL BIOLOGY

One-year appointment as **ASSISTANT PROFESSOR**, to begin September 1998. Ph.D. required. Applicants should have strong potential for excellence in undergraduate teaching and research. We will conduct a search net year to fill this position with a tenure-track appointment, for which this year's successful candidate may apply. Teaching assignments include courses in cell biology, molecular biology, and participation in our introductory biology sequence. North Central College is a 136-year-old comprehensive liberal arts college of 2,500 students with a strong tradition in biology. Send letter of application, curriculum vitae, graduate and undergraduate transcripts, and arrange to have three letters of recommendation sent to: **Dr. Terrence Marsh, Search Committee Chair, c/o Academic Affairs Office, North Central College, P.O. Box 3063, Naperville, IL 60566-7063.** Review of applications begins April 20, 1998, and continues until the position is filled. For more information see website: <http://www.nocrl.edu/acad/majors/biology/biohome.htm>. *North Central College encourages applications from women and minority candidates. Equal Opportunity Employer.*

### TWO-YEAR FIXED TERM FACULTY POSITION

The Moorhead State University Departments of Biology and Chemistry invite applications for a two-year, fixed-term, entry-level **ASSISTANT PROFESSOR** position to begin August 20, 1998. A Ph.D. in biology or chemistry with a specialization in biotechnology, biochemistry, or molecular biology is required. The successful candidate will have a biology/chemistry joint appointment and participate in the biotechnology emphasis which leads to a biology/chemistry double major. Application information can be obtained at website: [www.moorhead.msus.edu/~chem/](http://www.moorhead.msus.edu/~chem/) or [www.moorhead.msus.edu/~biology/](http://www.moorhead.msus.edu/~biology/). Inquiries can be directed to: **Dr. Shawn G. Dunkirk, Department of Chemistry, e-mail: [dunkirk@mhd1.moorhead.msus.edu](mailto:dunkirk@mhd1.moorhead.msus.edu).** Screening of completed applicants will begin April 10, 1998, and continue until the position is filled. *Moorhead State University is an Equal Opportunity/Affirmative Action Employer and Educator.*



## Bringing you the RIGHT CANDIDATE, RIGHT NOW.

**NEW IN 1998** SCIENCE Online will introduce **Employer Profiles**, SCIENCE Professional Network's newest recruitment feature. Employer Profiles are online brochures enabling candidates to navigate interactively through specific employment information about your organization. The function of the Employer Profile is to communicate employer information to the candidate, enabling them to make the RIGHT employment choice and you the RIGHT hire.

SCIENCE Professional Network offers a perfect complement to your print and Internet recruitment strategy. To find out just how SCIENCE Online Employer Profiles reach talented scientists every day contact:

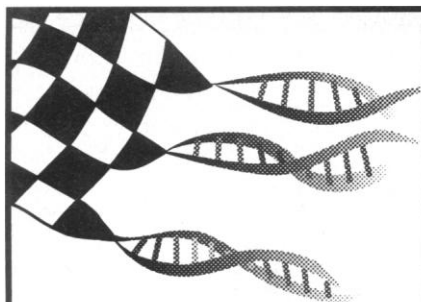
**U.S.**  
Beth Dwyer  
Tel: (202) 326-6534  
Fax: (202) 289-6742  
e-mail: [bdwyer@aaas.org](mailto:bdwyer@aaas.org)

**Japan**  
Masayoshi Yoshikawa  
Tel: (+81) 3 3235-5961  
Fax: (+81) 3 3235-5852

**Europe**  
Debbie Cummings  
Tel: +44 (0) 1223 302067  
Fax: +44 (0) 1223 576208  
e-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

**Australia**  
Keith Sandell  
Tel: (+61) 02 922-2977  
Fax: (+61) 02 922-1100

**SCIENCE**  
PROFESSIONAL  
NETWORK  
[www.sciencemag.org](http://www.sciencemag.org)



## THE INSIDE TRACK

The best way to get your foot in the door is to get there first. SCIENCE's new e-mail Job Alerts service allows you to receive advance notification about new jobs appearing on SCIENCE Professional Network. If you're looking for a new position, or just testing the market, make Job Alerts part of your search...

- **FAST:** Each week you'll receive e-mail notification about jobs on SCIENCE Professional Network that match your search criteria.
- **FREE:** There's no charge. All you do is register. Go to [www.sciencemag.org](http://www.sciencemag.org) — click on SCIENCE Professional Network — then click on Job Alerts.
- **EASY:** Simply select the appropriate criteria for positions that fit your job search profile. After you've completed the form, the Job Alerts system automatically notifies you via e-mail about new positions. Hundreds of new positions are posted each week.

## SCIENCE JOB ALERTS

Go to [www.sciencemag.org](http://www.sciencemag.org)  
— click on SCIENCE  
Professional Network—  
then click on Job Alerts.

## THE BAYER FACTS:



### Bayer:

**A premier healthcare company for the 21st century.**

Our business is to significantly improve health worldwide.

People are the heart of our company.

Our corporate culture inspires and commits all to do their best.



Pharmaceutical  
Division

## STAFF SCIENTIST—CANCER

- 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. Currently, we have an excellent opportunity for a Staff Scientist within our Cancer Drug Discovery Group at our **WEST HAVEN, CT** site.
- The individual will contribute to the identification and development of novel cancer therapies. This work will require the application of modern biochemical and/or cell biological techniques to the drug discovery process. Research interest in angiogenesis, apoptosis, oncogene signalling and/or cell cycle would be preferred.
- To qualify, you must have either a Ph.D. with 6+ years proven experience and accomplishment, an M.S. with 8+ years, or a B.S. with 10+ years. Creative thinking and research skills are essential.
- Please forward your resume including salary history to: **Bayer Corporation, Pharmaceutical Division, Dept KP-NG-SCI, 400 Morgan Lane, West Haven, CT 06516.** No agencies or phone calls please. For more information on Bayer, search: <http://www.careermosaic.com/crm/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.

## Breakthrough

OPPORTUNITY

GeTex Pharmaceuticals, Inc. is developing novel polymer technology for therapeutic applications. The company is applying this technology to new product discovery and development. Examples include RenaGel for treatment of kidney disease; CholestaGel for treatment of lipid disorders; and evolving drug discovery programs in obesity and infectious diseases. We are seeking qualified applicants for the following position:

### Director of New Programs Evaluation

The successful candidate will work with clinical and research management in the identification as well as the scientific medical and technical evaluation of new opportunities for application of GeTex's polymer based technologies for treating disease. Qualified candidates must have an MD and/or a Ph.D. in a biological or physical science. Five to ten years' experience in the pharmaceutical industry or in the strategic evaluation of new therapeutic opportunities desired. Refer to Job Code HM001

Qualified candidates send curriculum vitae to Human Resources, GeTex Pharmaceuticals, Inc., Nine Fourth Ave., Waltham, MA 02154; Fax (781) 290-5890; or email us from our website at [www.geltex.com](http://www.geltex.com). GeTex Pharmaceuticals is an Equal Opportunity Employer.

**GeTex**  
PHARMACEUTICALS, INC.

The University of Minnesota Cancer Center and the University of Minnesota Department of Medicine invite applications for Tenure-Track Assistant Professor positions from candidates with a strong research program in the field of regulation of normal and malignant cell proliferation and differentiation as part of the Stem Cell Biology Program. Candidates must have a Ph.D. and/or M.D. degree (or foreign equivalent) and a minimum of three years of postdoctoral experience. They must have demonstrated the ability to carry out high-quality research with publications in mainstream journals. Areas of expertise include biochemical and molecular characterization in normal or malignant mammalian cells of signal transduction pathways, cell cycle control regulatory pathways and/or regulation of gene expression. Successful candidates will be expected to develop a strong, extramurally funded research program. Strong emphasis will be placed on the candidate's ability to interact with other faculty in the Stem Cell Biology Program, and in the Department of Medicine, the Cancer Center, and Bone Marrow Transplant Program. The Stem Cell Biology Program offers excellent facilities in the University of Minnesota Cancer Center and opportunities for collaborative research. Salary and start-up funds will be competitive. Opportunities for joint appointments in other departments will exist.

Applicants should include a current curriculum vitae, statement of research interests and intentions, and three letters of reference. Please send applications to: **Catherine M. Verfaillie, M.D., Director Stem Cell Biology Program, University of Minnesota, Box 806 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455.**

Last date for receipt of applications: April 30, 1998.

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

## POSITIONS OPEN

### PROFESSOR AND CHAIR FOR THE DEPARTMENT OF COMPARATIVE MEDICINE University of Alabama at Birmingham

The University of Alabama at Birmingham (UAB) invites applications and nominations for the position of Professor (tenured) and Chair of the Department of Comparative Medicine, a Joint Basic Health Science Department of the UAB Schools of Medicine and Dentistry. The department has a very well-funded, interdisciplinary research program that brings together funded projects in genetics, microbiology, transgenic animal models, pathology, and molecular and cellular biology. The department has a 30-year tradition of excellence in graduate training in comparative medicine with emphasis on molecular and cellular pathology. The faculty in the department also provide professional leadership for the Animal Resources Program, the Transgenic Animal/Embryonic Stem Cell Resource, and the Animal Diagnostic and Health Surveillance Laboratory at UAB. The successful applicant must have a doctoral degree, preferably a D.V.M. and/or Ph.D. Specialty certification (e.g., ACLAM, ACVP, or other) is not essential but is desirable. The candidate should have a strong publication record, capacity to maintain a robust extramurally funded research program, and commitment to excellence in graduate education. Applications will be accepted through May 15 or until position is filled and should include a letter indicating research and academic goals and interests, curriculum vitae, and names and addresses of five references. Please submit applications and nominations to:

Juan M. Navia, Ph.D.  
Search Committee  
University of Alabama at Birmingham  
Department of Comparative Medicine  
Volker Hall 403  
Birmingham, AL 35294-0019  
E-mail: naviajm@uab.edu  
Website: <http://www.uab.edu>

UAB is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITION DEPARTMENT OF BIOLOGY KUTZTOWN UNIVERSITY

Tenure-track position at the ASSISTANT PROFESSOR level to begin in August 1998. PLANT ECOLOGIST, with a broad background in botany, and expertise in field research. Teaching responsibilities will include non-majors introductory biology, introductory botany laboratories, and an advanced course in plant ecology. The candidate will be expected to involve undergraduates in research. Ph.D. and two years of college-level teaching experience required. Preference will be given to candidates with teaching and research abilities that complement existing departmental strengths. Successful interview and demonstration of ability are also requisite qualifications. Send letter of application, curriculum vitae, official graduate and undergraduate transcripts, statement of teaching philosophy and research interests, and three letters of reference to: Dr. Carol C. Mapes, Chair of the Search Committee, Biology Department, Kutztown University, Kutztown, PA 19530. FAX: 610-683-1352; e-mail: [mapes@kutztown.edu](mailto:mapes@kutztown.edu). Application deadline is April 17, 1998. Kutztown University is an Affirmative Action/Equal Opportunity Employer.

### SECTION CHIEF OF INFECTIOUS DISEASE AT THE PHILADELPHIA VA HOSPITAL

The Infectious Disease Division of the Department of Medicine at the University of Pennsylvania is looking to recruit a Section Chief at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level in the Physician Scientist or Clinician-Educator track. The candidate should be Board-eligible/Board-certified in infectious disease and if interested in the Physician Scientist track, should have a strong basic research program, preferably funded through NIH. Opportunities exist for a secondary appointment in the Department of Microbiology. Approximately 25 percent of time will be committed to clinical activities. We are particularly interested in the area of microbial pathogenesis. The VA Hospital has an active HIV clinic that is an integral component of the Infectious Disease Program. We offer an excellent salary/benefit package and outstanding laboratory facilities. Please submit curriculum vitae to: Harvey Friedman, M.D., Chief, Infectious Diseases Division, University of Pennsylvania, 536 Johnson Pavilion, Philadelphia, PA 19104-6073. Equal Opportunity/Affirmative Action/Minority/Females/Disabled/Veterans.

## POSITIONS OPEN

### FOUR FULL-TIME FACULTY POSITIONS

The Oceanographic Center at Nova Southeastern University (NSU) invites applicants for the following (Ph.D. required):

Two positions in biological oceanography, marine biology, or related discipline (e.g., marine physiology, ecotoxicology). Teaching includes undergraduate microbiology (50 to 63 percent of 12-month salary) for one position, and introductory biology (63 percent) for the other, both chiefly to pre-health-profession students. One position requires one to two graduate courses (12.5 to 25 percent) yearly on planktonic organisms and processes; the other presents the opportunity to teach at the graduate level in an area of specialization. Both are expected to develop or bring externally funded research programs to cover a modest portion of salary to which the Oceanographic Center will contribute an additional 50 percent.

Two nine-and-a-half-month undergraduate teaching positions in chemistry; one for general chemistry and one for introductory organic chemistry.

Undergraduate teaching is chiefly to pre-health-professions majors. NSU offers competitive salaries, comprehensive benefits packages, and a team-oriented work environment. The Center has immediate access to mangroves, coral communities, and the Gulf Stream. For confidential consideration, send your résumé and the names and addresses of three work-related references to: Dr. Charles Messing (biology) Job Code: OCM, or Dr. Robert Pomeroy (chemistry) Job Code: ORP, c/o Human Resources Department, Nova Southeastern University, 3301 College Avenue, Fort Lauderdale, FL 33314. Review of résumés will continue until the position is filled. Hiring subject to the Board of Trustees. NSU is an Equal Opportunity/Affirmative Action Employer and smoke-free campus.

### FACULTY POSITIONS IN SIGNAL TRANSDUCTION/MOLECULAR BIOLOGY

The South Dakota Cardiovascular Research Institute, housed in the University of South Dakota Health Sciences Center in Sioux Falls, invites applications for two faculty-level positions available July 1, 1998. These positions will provide a unique opportunity for Investigators to explore the molecular mechanisms of ventricular remodeling in well-characterized animal models of cardiac hypertrophy and congestive heart failure (*Trends in Cardiovascular Medicine* 2:152-155, 1992; *Hypertension* 28:609-614, 1996). Preference will be given to candidates with a strong background in molecular biology and/or signal transduction. Minimal requirements include a doctoral degree (Ph.D., M.D., or equivalent) and two years of postdoctoral training. A competitive salary and start-up package will be provided. Sioux Falls is an affordable, highly rated small city with a low crime rate, quality schools, and excellent health care. Applicants should submit a curriculum vitae, three reference letters, and a brief summary of research interests and goals to: Dr. A. Martin Gerdes, Director, South Dakota Cardiovascular Research Institute, University of South Dakota Health Sciences Center, 1400 West 22nd Street, Sioux Falls, SD 57105. E-mail: [mgerdes@sundance.usd.edu](mailto:mgerdes@sundance.usd.edu). Equal Opportunity/Affirmative Action Institution.

### UNIVERSITY OF SOUTH CAROLINA SCHOOL OF MEDICINE

The Department of Developmental Biology and Anatomy at the University of South Carolina seeks a tenure-track ASSISTANT or ASSOCIATE PROFESSOR. We are particularly interested in, but not limited to, candidates with a strong record of achievement in the areas of cardiovascular biology and/or developmental biology as related to cancer and neuroscience. Evidence of independent research with potential for attracting extramural funding is sought in the Assistant Professor. An established record of funded research projects is highly desirable and is expected for appointment as Associate Professor. Responsibilities will include establishment of an active research program and participation in team-taught medical embryology and gross anatomy. Additional teaching opportunities are available in the graduate program. Applicants are encouraged to submit a curriculum vitae, description of research plan, and the names of three references to: Search Committee, Developmental Biology and Anatomy, University of South Carolina School of Medicine, Columbia, SC 29208. Interested applicants can also visit our website: [http://www.med.sc.edu/DBA\\_HOME.HTM](http://www.med.sc.edu/DBA_HOME.HTM). The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### FACULTY POSITION IN MICROBIOLOGY

McGill University invites applications for a faculty position in the Department of Microbiology and Immunology at the rank of ASSISTANT PROFESSOR. Applications are encouraged from candidates who use genetic approaches to study molecular microbiology and microbial physiology in either prokaryotic or eukaryotic systems. An interest in molecular mechanisms of microbial pathogenesis and/or emerging pathogens is desirable. Ph.D. and/or M.D. and relevant postdoctoral experience are required. The successful candidate will be expected to develop an active, externally funded research program and to supervise the training of graduate students. Additional responsibilities include participation in undergraduate and postgraduate courses. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. Non-Canadians and nonresidents are encouraged to apply. Closing date for applications is May 1, 1998. Anticipated start date is September 1, 1998. Applicants should submit a curriculum vitae, a two-page statement of research interests, and the names of three referees who have been requested to send letters of reference to:

Search Committee  
Microbial Physiology/Genetics  
Department of Microbiology and Immunology  
McGill University  
3775 University Street, Room 511  
Montreal, Quebec H3A 2B4 Canada  
FAX: 514-398-7052  
E-mail: [office@microimm.mcgill.ca](mailto:office@microimm.mcgill.ca)  
Website: <http://www.microimm.mcgill.ca>  
McGill University is committed to Equity in Employment.

### TENURE-TRACK POSITION IN MOLECULAR MICROBIOLOGY THE UNIVERSITY OF WESTERN ONTARIO Department of Microbiology and Immunology

The Department of Microbiology and Immunology is seeking applications for a tenure-track position at the entry level of ASSISTANT or ASSOCIATE PROFESSOR. Applicants should have an interest in the structure, function, genetics, and biosynthesis of bacterial cell envelope components. Candidates must have a Ph.D. and/or M.D. degree, several years of postdoctoral or independent research experience, and a strong publication record.

The successful candidate will be required to obtain a personnel award within two years of accepting the position and is expected to join a newly formed infectious diseases research group, and develop an independent and externally funded research program. The candidate will also participate in teaching in the university graduate and undergraduate training programs.

Applicants should send a curriculum vitae, a description of research accomplishments and future research plans, together with names and addresses of three references before April 30, 1998, to: Dr. B. Singh, Department of Microbiology and Immunology, Faculty of Medicine and Dentistry, The University of Western Ontario, London, Ontario N6A 5C1 Canada.

Positions are subject to budget approval. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Western Ontario is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disability.

Apiculture extension and research. Tenure-track ASSISTANT PROFESSOR to conduct extension and research in apiculture and pollination, including management of *Varnia* mite in the honey bee. Coteaching a graduate-level insect physiology course and developing an apiculture course or seminar is also expected. Requires a Ph.D. in entomology or related field; experience in apiculture and extension is highly desirable. Responsibilities will be approximately 55 percent extension, 25 percent research, and 20 percent instruction and graduate student advising. Closing date: April 15, 1998, or until a suitable candidate is identified. Send curriculum vitae, transcripts, reprints, statement of career goals, and arrange to have three letters of reference sent to: David R. Smitley, Search Committee, Chairperson, Department of Entomology, 243 Natural Science Building, Michigan State University, East Lansing, MI 48824-1115. Telephone: 517-355-3385; FAX: 517-353-4354; e-mail: [smitley@msu.edu](mailto:smitley@msu.edu). Disabled persons have the right to request and receive reasonable accommodation. Michigan State University is an Affirmative Action/Equal Opportunity Institution.



## TENURE-TRACK POSITION Iowa State University

The Departments of Civil & Construction Engineering and Mechanical Engineering seek applications and nominations for a tenure-track faculty position at the rank of ASSOCIATE OR FULL PROFESSOR with interest in sustainable development and/or global environmental policy. He/she will be expected to develop new courses and a long-term sustainable research program in one or more of the following: environmental engineering, water resources, transportation, infrastructure development, sustainable technologies, waste minimization, industrial ecology, and/or nuclear waste transport, storage, and disposal. Policy experience at a high level in a national or international agency is a plus. Collaboration on issues of sustainable development and global environmental policy with the International Institute of Theoretical and Applied Physics at Iowa State University will be encouraged. An earned doctorate in a field appropriate to sustainable development and/or environmental policy and one degree in engineering are required. Appointment at the rank of Associate Professor or Professor will require commensurate experience. For additional details see <http://www.cce.iastate.edu/~austin/position/positionhome.html>. Send letter of application, complete résumé, a one-page statement of teaching and research philosophy related to sustainable development or global environmental policy, and the names, addresses, phone numbers, and e-mail addresses for five (5) references to: **Policy Search Committee, College of Engineering, 104 Marston Hall, Iowa State University, Ames, IA 50011-2151**. Review of applications will begin 15 April 1998 and will continue until position is filled. *Iowa State University is an Equal Opportunity/Affirmative Action Employer.*



## MAYO CLINIC CANCER CENTER Postdoctoral Fellowships Cancer Immunotherapy/Immunobiology Program

Postdoctoral research fellowships are available in a wide range of basic science and translational cancer research programs associated with the Mayo Clinic Cancer Center and Department of Immunology. The Mayo Cancer Immunotherapy/Immunobiology program is a highly interactive group of NIH funded scientists including:

<b>R. Abraham, Ph.D.</b>	<b>P. Leibson, M.D., Ph.D.</b>
<b>E. Celis, M.D., Ph.D.</b>	<b>V. Lennon, M.D., Ph.D.</b>
<b>L. Chen, M.D., Ph.D.</b>	<b>D. McKean, Ph.D.</b>
<b>J. Gleich, M.D.</b>	<b>D. Persing, M.D., Ph.D.</b>
<b>D. Jelinek, Ph.D.</b>	<b>L. Pease, Ph.D.</b>
<b>L. Karnitz, Ph.D.</b>	<b>P. Wettstein, Ph.D.</b>

Descriptions of faculty research programs are available on the Immunology Department page of the Mayo website: <http://www.mayo.edu>.

Mayo Clinic offers very competitive salary and benefits packages. Applicants for postdoctoral positions in one or more of the listed laboratories should send a curriculum vitae, description of research experience, and names and addresses of three references to:

**D.J. McKean, Ph.D., Chair**  
Department of Immunology  
321 Guggenheim Building  
Mayo Clinic  
Rochester, MN 55905

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

## Peptide Chemist

Harvard Medical School  
Joslin Diabetes Center

A staff position is available immediately to run our peptide biochemistry core facility. The successful applicant must have a strong background in peptide synthesis and characterization. In addition to responsibilities of running the core, there will be substantial opportunity to interact with researchers studying the biochemistry, cell biology, structural biology and immunology related to diabetes.

Send CV and three reference letters to:

**Steven E. Shoelson, MD, PhD**  
Joslin Diabetes Center  
Harvard Medical School  
One Joslin Place  
Boston, MA 02215

An equal opportunity employer.



**Joslin  
Diabetes Center**

## Director Center for Neuroscience

Applications and nominations are invited for an endowed appointment as Director of the UW Center for Neuroscience, a newly structured campus-wide center that will include neuroscientists working in over 30 departments in several schools and colleges. The UW-Madison is a premier public institution of higher education and research in a community ranking among the top 10 in the U.S. as excellent places to live. Director will be responsible for graduate and undergraduate neuroscience teaching programs, campus-wide strategic planning for neuroscience, and the development of interdepartmental research initiatives.

Candidates will hold a Ph.D. or M.D. degree, will demonstrate nationally recognized experience and interest in an area of neuroscience, and will be currently directing an ongoing research program. Excellent administrative and communication skills required, and academic credentials to qualify for a tenured faculty appointment at UW-Madison. The University of Wisconsin-Madison is an EO/AA employer and specifically encourages nomination and application from women and members of minority groups. Further details are available from Professor Ray Guillery, Chair, Neuroscience Center Director Search Committee, c/o Margie Martin, Medical School Administration, 1300 University Ave., Rm. 1205, Madison, WI 53706, fax: 608-265-3286; email: [margie.martin@mail.admin.wisc.edu](mailto:margie.martin@mail.admin.wisc.edu); phone: 608-262-7705.



UNIVERSITY OF  
WISCONSIN-MADISON  
MEDICAL SCHOOL

NORTH SHORE UNIVERSITY  
HOSPITAL IN MANHASSET

## Academic Research Scientist

The Division of Nephrology and Hypertension is seeking an individual to join our progressive research team.

Applicants should possess a Ph.D. or equivalent in Molecular Biology or Cell Biology. The successful candidate will be expected to participate in ongoing research projects, develop independent areas of research, and receive extramural grant funding.

Responses should include a detailed resume, a statement of research interests/philosophy, and a minimum of 3 references. We offer a competitive salary and comprehensive professional benefits.

Please forward resume to:  
**Human Resources Department**  
North Shore University Hospital  
300 Community Drive  
Manhasset, NY 11030

Equal Opportunity Employer M/F/D/V.

WE INVITE THE BEST  
TO JOIN THE BEST.

NORTH SHORE -  
LONG ISLAND JEWISH  
HEALTH SYSTEM

## POSITIONS OPEN

The Department of Medicinal Chemistry at the University of Florida seeks a tenure-track **ASSISTANT PROFESSOR** in biochemistry/molecular biology with research interests in drug design. The applicant should have a Ph.D. or equivalent and postdoctoral experience. The major responsibility of the successful applicant will be to develop an active, externally funded research program. Teaching duties will include mentoring Ph.D. students and contributing to departmental graduate courses as well as teaching one to two credit hours per year in the professional (Pharm.D.) program. The department is located in the academic health center at the University of Florida and has access to state-of-the-art equipment and excellent collaborative opportunities. Start-up funds will be provided and a competitive salary and benefits package will be offered. Applicants should submit a complete curriculum vitae and a one- to two-page statement of proposed research, and arrange for three letters of reference, including letters from Ph.D. and postdoctoral mentors, to be sent to: **Dr. Kenneth B. Sloan, Chair, Search Committee in Medicinal Chemistry, Department of Medicinal Chemistry, P.O. Box 100485, University of Florida, Gainesville, FL 32610-0485. Dr. Sloan, or Dr. Margaret James, Department Chair, may be contacted informally for more details by Telephone: 352-392-5900.** The closing date for applications is May 15. The position will be available any time after July 1, 1998.

The University of Florida is an Equal Opportunity/Affirmative Action Employer and encourages suitably qualified minority and female applicants.

### CHAIR DEPARTMENT OF PHARMACOGNOSY SCHOOL OF PHARMACY The University of Mississippi

The University of Mississippi School of Pharmacy is seeking a Chair for the Department of Pharmacognosy. The Department faculty have diverse research interests related to natural products, especially marine natural products. Candidates must have a Ph.D. in pharmacognosy or related field such as organic chemistry, biochemistry, or molecular biology; a nationally recognized research program; proven administrative skills; and a commitment to excellence in education. Responsibilities include overall leadership and enhancement of the research, teaching, and service activities of the department. For more information, please see the announcement at our website: <http://www.olemiss.edu/depts/pharmacognosy> or contact: **The Administrative Manager, School of Pharmacy Business Office, NCDNP Room 1026, The University of Mississippi, University, MS 38677.** The University of Mississippi is an Affirmative Action/Equal Opportunity Employer and does not discriminate on the basis of age, race, color, sex, pregnancy, religion, marital status, national origin, disability, or status as disabled or Vietnam-era veteran.

### FACULTY RESEARCH

The Division of Nephrology at Duke University is seeking an individual for a tenure-track position in basic science research. We are seeking interactive individuals who are committed to leading a vigorous independent research program. We are particularly interested in candidates with interest in vascular biology and immunology, but qualified Investigators with other areas of interest are encouraged to apply. Faculty appointment will be at the **ASSISTANT/ASSOCIATE PROFESSOR** level based on qualifications. Send written inquiries with current curriculum vitae to: **Thomas M. Coffman, M.D., Division of Nephrology, Box 3014, Duke University Medical Center, Durham, NC 27710.** Minorities and women are encouraged to apply. Duke University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR** of biology. Seton Hill College, a Catholic liberal arts college for women, invites applications for a tenure-track position for August 1998. Ph.D. required in ecology or related field. Teaching responsibilities include general biology, ecology, environmental studies, and intermediate-level biology courses and direction of undergraduate research. Send letter of application, curriculum vitae, transcripts, three letters of recommendation, and statement of teaching philosophy and research goals no later than April 15 to: **Susan Yochum, S.C., Ph.D., Seton Hill College, Greensburg, PA 15601.** Interviews begin immediately. Seton Hill is committed to having our faculty and student body reflect the racial diversity of the global population; women and men of color are encouraged to apply. Equal Opportunity Employer.

## POSITIONS OPEN

### PHYSIOLOGY FACULTY MEDICAL COLLEGE OF OHIO TOLEDO, OHIO

The Department of Physiology and Molecular Medicine at the Medical College of Ohio invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Candidates must have a Ph.D., M.D., or equivalent; postdoctoral research experience; and either funded grants or significant potential for developing independent funding. All candidates with a record of excellence in research and a commitment to graduate and medical education will be considered. Candidates conducting research on thermoregulation are especially encouraged to apply. The successful candidate will join a diverse department with strengths in integrative physiology, molecular endocrinology, and the molecular biology/genetics of hypertension. Review of applications will begin immediately and continue until a suitable candidate is hired. To apply, send a curriculum vitae and the names of three references to:

**Steven L. Britton, Ph.D.  
Chairman, Physiology Search Committee  
Department of Physiology and Molecular Medicine  
Block Health Science Building  
Medical College of Ohio  
3035 Arlington Avenue  
Toledo, OH 43614-5804**

The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.

### DIVISION OF MEDICAL ONCOLOGY/ CANCER CENTER EXPERIMENTAL THERAPEUTICS PROGRAM Department of Pharmaceutical Sciences University of Colorado Health Sciences Center (UCHSC) Denver, Colorado

The Division of Medical Oncology seeks M.D.-Ph.D., M.D., or Ph.D. tenure-eligible **ASSISTANT or ASSOCIATE PROFESSOR** to focus on the clinical and pre-clinical pharmacology and pharmacokinetic/pharmacodynamic parameters of antineoplastic agent therapy. The applicant will develop a funded research program based on the development of novel anticancer agents and/or the exploration of new targets for cancer therapy. The position involves close interaction with the School of Pharmacy programs in toxicology and pharmaceutical biotechnology. UCHSC is an NIH-funded Comprehensive Cancer Center with a funded lung cancer SPORC. Send letter of interest, curriculum vitae, and the names of three references to: **Dr. Andrew S. Kraft, Chief, Division of Medical Oncology, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Denver, CO 80262.** UCHSC is an Equal Opportunity/Affirmative Action 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**

### SCIENTIST OR POSTDOCTORAL POSITION NONINVASIVE VACCINES

A Scientist position is available for a highly motivated individual in a start-up company within an academic environment. Projects focus on the development of skin-targeted noninvasive vaccines (*Nature* 388:729, 1997). Strong immunological background and molecular biology techniques are required. The successful candidate may also receive an appointment as a Postdoctoral Fellow at University of Alabama at Birmingham. Please send curriculum vitae and names of three references to: **Dr. De-chu Tang, Vaxin Pharmaceuticals, Inc./University of Alabama at Birmingham, THT 215, 1900 University Boulevard, Birmingham, AL 35294-0006. E-mail: tang@vaxin.com.**

## POSITIONS OPEN

### COLBY COLLEGE

Colby College is seeking two **BIOLOGISTS** to fill two one-year positions as **ASSISTANT PROFESSORS** of biology to begin September 1998. Candidates should have a Ph.D. in the biological sciences with broad training in animal biology. Teaching assignments will include three courses with laboratories drawn from animal behavior, neurobiology, comparative animal physiology, mammalian anatomy and physiology, or others in each candidate's discipline. Familiarity with liberal arts colleges, teaching experience, and postdoctoral experience are desirable. During the fall of the 1998-99 academic year the department plans to search for at least two tenure-track Biologists.

Please submit a letter of application, statement of teaching interests (including courses you would like to teach at Colby), curriculum vitae, reprints of no more than three publications, undergraduate and graduate transcripts, and three letters of recommendation to: **Paul G. Greenwood, Chair, Department of Biology, 5720 Mayflower Hill, Colby College, Waterville, ME 04901. Telephone: 207-872-3322; e-mail: pggreenw@colby.edu.** Application review will begin immediately and continue until the positions are filled. For more information about the College, please see the Colby website: <http://www.colby.edu>. Colby College is an Affirmative Action/Equal Opportunity Employer, and encourages applications from minorities and women.

### CELL BIOLOGIST

The Department of Biological Sciences at Arkansas State University invites applications for a tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. Requirements include a Ph.D. with a specialty in cellular and molecular biology and a record of funding and publication. This individual will be expected to teach an introductory cell biology course for majors, an upper/graduate-level course, and to develop additional courses in their area of specialty as well as participate in an interdepartmental environmental sciences Ph.D. program and student advisement. Starting date is August 15, 1998. Submit a letter of application specifying teaching and research interests, curriculum vitae, copies of transcripts, and the names, addresses, telephone numbers, and e-mail addresses of five references to: **Dr. Roger Buchanan, Chair, Search Committee, Department of Biological Sciences, Arkansas State University, P.O. Box 599, State University, AR 72203.** Review of applications will begin March 30, 1998. Arkansas State University is an Affirmative Action/Equal Opportunity Employer.

### PROGRAM LEADER HUMAN DYSPLASIA PROJECT

The Fox Chase Cancer Center is currently looking for a candidate to lead a new program in human dysplasia. The candidate may be a Ph.D., M.D., or M.D.-Ph.D. This position will involve investigation of early molecular mechanism in malignant transformation in human cancer. Candidates should have a molecular background and ideally have focused research in any of the following: identification of novel tumor suppressor genes in dysplasia; development of transgenic animal models of molecular events in human dysplasia; molecular carcinogenesis with emphasis on early events in human dysplasia.

Please submit curriculum vitae to: **Burton L. Eisenberg, M.D., Chairman, Search Committee, Department of Surgical Oncology c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.**

University of California, Los Angeles (UCLA). The UCLA Institute of the Environment (IoE) and the Department of Geography are jointly seeking candidates for an **OPEN RANK** position in population and natural resources. Applicants should demonstrate strong analytic and demographic training and have experience with research applications of geographic information systems in the study of human/environmental interactions. The successful candidate will hold a joint faculty position divided equally between the Institute and the Department and will have the opportunity to help shape the future direction of the IoE, created in 1997 as a center for interdisciplinary research and teaching on the environment. Applicants should have a strong commitment to research and teaching at the undergraduate and graduate levels. Please send letter of application, curriculum vitae, and list of referees as soon as possible. Apply to: **J. Nicholas Entrikin, Chair, Department of Geography (SM), Box 951524, Los Angeles, CA 90095-1524. E-mail: entrikin@geog.ucla.edu.**

## Influence the World of Research at Parke-Davis

Parke-Davis  
Pharmaceutical Research,  
a division of Warner-  
Lambert, offers you an out-  
standing opportunity to  
influence important research  
for world health. We are cur-  
rently seeking this individual to  
join our team in Ann Arbor, MI.

### SENIOR ASSOCIATE SCIENTIST/SCIENTIST Research/Neuroscience

You will conduct ex vivo biochemical analyses on brain tissues and microdialysis harvested from rodent models of acute traumatic brain injury at various post-traumatic timepoints. A BA, BS, MA or MS in Neurochemistry, Neuropharmacology or other neuroscientific discipline is required. Two to six years' experience for MS or 5-9 years' experience for BS is also required. In addition, experience with routine tissue extractions, HPLC and biochemical analyses is required. Experience with electron spin resonance spectroscopy is desirable.

Qualified candidates mail, fax or e-mail a resume (Please submit resume on laser-quality white paper, with legible 10 point or larger type, and avoid boldface, italics, borders, etc.) indicating Job Code RJB-980044, to: Parke-Davis Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: (310) 337-3367. E-mail: [parkedavis@isearch.com](mailto:parkedavis@isearch.com)

Equal opportunity in action. Smoke-free work environment.



Warner-Lambert "Pharmaceutical Company of the Year"  
Med Ad News September 1997

## NATIONAL CANCER INSTITUTE Division of Basic Sciences TENURE-TRACK POSITION

The Laboratory of Tumor Immunology and Biology (LTIB), Division of Basic Sciences, of the National Cancer Institute, National Institutes of Health, invites applications for a tenure-track position in immunology. The applicant should have the potential to develop an independent basic research program in cellular immunobiology, with emphasis on T lymphocyte-mediated immunity. The LTIB has established an active program in the preclinical and clinical development and application of novel immunotherapy strategies for the potential treatment of metastatic disease for solid malignancies. Such strategies are based on targeting cancer cells that either overexpress self-peptides [i.e., tumor-associated antigens (TAAs)] or express foreign peptides [i.e., tumor-specific antigens (TSAs)] encoded by oncogenes. In that context, it is important that experimental systems (*in vivo* and *in vitro*) be developed to study and elucidate fundamental processes or consequences of such host-pathogen interactions: (1) mechanisms underlying productive T cell-mediated immune responses against target cells presenting relevant TSAs or TAAs; and (2) potential mechanisms of tumor escape from cellular immune reactions. This position is available for a Ph.D., M.D., or M.D./Ph.D. with a salary commensurate with education and experience. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: **Ms. Donna Gellerson, National Cancer Institute, NIH, 10 Center Drive, MSC 1362, Room 4B58, Bethesda, MD 20892.** Letters of recommendation should be enclosed in application package. Any inquiries should be sent only by fax, **301-402-4611** or E-mail, **gellersd@pop.nci.nih.gov**. *Candidates must be U.S. citizens or permanent residents.* Applications must be received within one month of this announcement. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit, with no discrimination for non-merit 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.*

LINK TO THOUSANDS OF PROSPECTIVE STUDENTS WITH

## ACADEMIC CONNECTIONS

Highlight your  
college or university's  
graduate programs online with  
Academic Connections...

- Receive a direct link to your university's website.
- All graduate school program listings remain posted online until August 1998.

**Academic Connections:**  
**[www.sciencemag.org](http://www.sciencemag.org)**

Click on SCIENCE Professional Network,  
then click on Academic Connections.

**SCIENCE**  
**[www.sciencemag.org](http://www.sciencemag.org)**

### FOR MORE INFORMATION CONTACT:

<b>U.S.:</b> Bren Peters	<b>Europe:</b> Debbie Cummings
Phone: 202-326-6541	Phone: 44 (0) 1223 302 067
Fax: 202-289-6742	Fax: 44 (0) 1223 576 208
E-mail: <a href="mailto:science_displayads@aaas.org">science_displayads@aaas.org</a>	E-mail: <a href="mailto:european_ads@science-int.co.uk">european_ads@science-int.co.uk</a>

## HELP SHAPE THE FUTURE OF BASIC AND CLINICAL NEUROSCIENCE

### Join the NIH as a HEALTH SCIENTIST ADMINISTRATOR or MEDICAL OFFICER

The National Institute of Neurological Disorders and Stroke (NINDS), located in Bethesda, Maryland, is seeking a Health Scientist Administrator in the Division of Stroke, Trauma, and Neurodegenerative Disorders. The person holding this position will advise and assist NINDS grantees in areas related to basic, applied, and clinical neurobiologic research with emphasis on CNS trauma and regeneration, and will be responsible for evaluating and planning the extramural research program of the Institute in this scientific area. Applicants are expected to have broad knowledge of, and interest in, contemporary neurobiological research. Areas of special interest include CNS injury, molecular, genetic, or developmental biology. Successful applicants must possess a Ph.D. or M.D. (or equivalent degree) with postdoctoral training in research and a record of research accomplishment relevant to the responsibilities described above.

This is a GS-13/14 Civil Service position with a salary range of \$55,969 to \$85,978 per year for Ph.D.'s and \$64,349 to \$90,426 for M.D.'s. Physicians may be additionally eligible for a Physician's Comparability Allowance of up to \$19,000 per year.

Applicants should submit a letter of application with a brief description of career interests, along with a curriculum vitae and bibliography to: **Mr. Luis Arvelo, National Institutes of Health, NINDS Personnel Office, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540, or you may fax your application to (301) 402-2818.**

Applicants are strongly encouraged to obtain information concerning the position description and qualification requirements, by contacting **Mr. Arvelo at (301) 435-6033.**

*U.S. citizenship is required.*

Applications must be submitted by April 13, 1998. Refer to vacancy announcement # NS 98-12. For additional information on the NINDS, please visit our website. The Internet address is: **<http://www.ninds.nih.gov>**

**National Institutes of Health  
Department of Health and Human Services  
NIH IS AN EQUAL OPPORTUNITY EMPLOYER**



## POSITIONS OPEN

The Donoghue Group at the University of California, San Diego invites applications for an **ASSISTANT PROJECT SCIENTIST** position in biochemistry. Candidates must have a Ph.D., postdoctoral experience, and a record of accomplishment that demonstrates their ability for creative research.

The research focuses on using molecular biological and biochemical approaches to solve problems in the areas of signal transduction mediated by growth factors, growth factor receptors, and the isolation of novel signaling genes; specifically, FGFRs in oncogenesis and developmental syndromes, as well as control of MPF-activation in G2/M control of the cell cycle. For more information on research objectives, visit <http://www-chem.ucsd.edu/Faculty/Donoghue/NIH-TG/fac/donoghue.html>.

Salary commensurate with qualifications and based on University of California pay scale. Positions subject to availability of funds. Candidates should send a curriculum vitae, a list of publications, reprints of up to five representative papers, a summary of research plans, and three letters of recommendation to: **Professor Daniel Donoghue, University of California, San Diego, Department of Chemistry and Biochemistry—0367, La Jolla, CA 92093-0367.** The deadline for applications is May 1, 1998, but until position is filled all applications received will be assured full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY MEDICAL COLLEGE OF OHIO

Tenure-track position in an established department with a long-standing record of extramural support and teaching excellence. Competitive salary, start-up funds, and laboratory space are available. The successful candidate will have demonstrated ability, or exceptional promise, to direct a state-of-the-art, extramurally funded research program related to receptor function and signal transduction at the cellular or molecular level. Applicants should have significant postdoctoral experience and should have the appropriate background for teaching medical as well as graduate students. Applicants should send a letter, including a description of research and future plans, curriculum vitae, and names of three references to: **H. C. Rosenberg, M.D., Ph.D., Department of Pharmacology, Medical College of Ohio, 3035 Arlington Avenue, Toledo, OH 43614-5804.** Website: <http://www.mco.edu>. Applications will be considered until the position is filled, but should be received before April 15, 1998, to ensure full consideration. *The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.*

### STAFF OFFICER ENVIRONMENTAL SCIENCES AND ENGINEERING

The National Research Council is seeking a Staff Officer to direct science policy studies for its Environmental Sciences and Engineering Program. Candidates should have at least a Master's degree related to environmental engineering or physical sciences, including environmental chemistry or environmental modeling, and at least four to five years of related professional experience, preferably in the science policy area. Position requires demonstrated abilities to perform analyses and develop objective information in scientific reports. Experience in managing scientific projects is also required. Salary range \$45,500 to \$70,000.

For consideration, please send résumé in confidence to: **National Research Council, HA 354 (RW), 2101 Constitution Avenue N.W., Washington, DC 20418.** Visit us at our website: <http://www.nas.edu>. *Equal Opportunity Employer.*

**PLANT PHYSIOLOGIST.** The Department of Biology at Vassar College seeks a one-year visiting full-time Plant Physiologist, beginning August 1998. Applicants should demonstrate an integrative molecular and cellular approach to plant physiology. Courses to be taught include (at the advanced level) molecular biology; (at the intermediate level) plant physiology; and (at the introductory level) the role of the cell. Ph.D. preferred; A.B.D. considered. Teaching experience required. Applications will be considered until the position is filled. Contact: **Leathem Mehaffey, Chair of Biology, Vassar College, Box 251, 124 Raymond Avenue, Poughkeepsie, NY 12604.** E-mail: [mehaffey@vassar.vassar.edu](mailto:mehaffey@vassar.vassar.edu); website: <http://www.vassar.edu>. *Vassar College is an Equal Opportunity Employer.*

## POSITIONS OPEN

### STAFFORD ENDOWED PROFESSORSHIP AND DIRECTOR, COSMOPOLITAN INTERNATIONAL DIABETES CENTER University of Missouri

Full-time position for a Senior Physician-Scientist as Stafford Professor and Director of the Cosmopolitan International Diabetes Center and the Division of Endocrinology and Metabolism, Department of Internal Medicine, University of Missouri, Columbia (UMC). We seek applicants with a track record of outstanding accomplishment in basic and/or clinical research in diabetes, with a strong interest in clinical diabetology and teaching, with demonstrated ability to successfully compete for extramural funding, and with the leadership skills to develop and direct multidisciplinary programs in diabetes research. Collaborative opportunities exist for basic and clinical research in a variety of fields, including autoimmunity, molecular biology, animal models, and other areas. Address inquiries and curriculum vitae to: **Dr. Robert W. Hoffman, Director, Division of Immunology and Rheumatology, Department of Internal Medicine, School of Medicine, University of Missouri-Columbia, MA427 Medical Sciences Building, Columbia, MO 65211.** Telephone: 573-443-2511, ext. 3726; e-mail: [intmdrh@showme.missouri.edu](mailto:intmdrh@showme.missouri.edu). *UMC is an Equal Opportunity/Affirmative Action Employer and complies with the ADA of 1990. Women and minorities are encouraged to apply.*

**RESEARCH ASSOCIATE/SENIOR RESEARCH ASSOCIATE** in chemistry and **DIRECTOR** of Analytical and Technical Services. Calendar year, tenure-track appointment. As member of chemistry faculty (website: [www-chem.esf.edu](http://www-chem.esf.edu)), teach and supervise research at the B.S. through Ph.D. level, and maintain an externally funded research program. Ph.D. in chemistry or related discipline and expertise in advanced NMR or MS instrumentation required. As Director of Analytical and Technical Services (website: [www.esf.edu/ats](http://www.esf.edu/ats)), supervise a group that provides 600 MHz NMR, HPLC-MS and GC-MS analysis, electronic instrument repair and fabrication, chemical stockroom management, and nuclear chemistry services to the College, and lead efforts to acquire and update equipment as needed. Salary commensurate with training and experience. Available August 15, 1998. By May 1, send letter of application, curriculum vitae, and names and addresses of three references to: **Dr. Robert L. Burgess, Search Committee Chair, 7 Illick Hall, SUNY College of Environmental Science and Forestry, 1 Forestry Drive, Syracuse, NY 13210-2778.** *The State University of New York is an Equal Opportunity/Affirmative Action Employer.*

### SENIOR STAFF FELLOW IN MAST CELL BIOLOGY FULL-TIME TEMPORARY \$35,000 to \$67,000

A Senior Research science position is immediately available to study the regulation of mast cell growth and differentiation (See: *J. Clin. Invest.* 99:1721, 1997; *J. Immunol.* 159:4006, 1997) in conjunction with ongoing studies on the role of mast cells in inflammatory and immune processes. Experience in cellular and molecular biology is required. Applicants should have an M.D. or Ph.D. degree and at least three years of postdoctoral experience. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to:

**Dr. Dean Metcalfe  
Laboratory of Allergic Diseases  
NIAID, NIH  
Building 10, Room 11C205  
10 Center Drive, MSC-1881  
Bethesda, MD 20892-1881 USA  
E-mail: [dean\\_metcalfe@nih.gov](mailto:dean_metcalfe@nih.gov)**

*NIH is an Equal Opportunity Employer.*

### MRI RESEARCH STAFF SCIENTIST AT NIH

The Diagnostic Radiology Department of the Clinical Center at the National Institutes of Health, Bethesda, Maryland, is seeking an MRI Research Scientist to develop an active MR research program in MR angiography, flow and fast MR techniques. The department has three state-of-the-art 1.5T MRI units with dedicated research time and image processing facilities. Numerous collaborative research opportunities are available within the department and throughout the NIH campus. Contact: **Alice Owens, Telephone: 301-496-6924** for information on application procedures. Applications must be postmarked by May 4, 1998. *NIH is an Equal Opportunity Employer.*

## POSITIONS OPEN

### SENIOR STAFF POSITIONS AVAILABLE

The Genome Sequencing Center (website: <http://genome.wustl.edu/gsc>) at Washington University School of Medicine in St. Louis is a world leader in large-scale DNA sequencing, having so far produced over 70 Mb of genomic sequence data and 1 million expressed sequence tags. In the last year, we submitted to GenBank over 20 Mb of the human genome and look forward to doubling that number in the coming year. In addition to human genome sequencing, we are pursuing additional research projects aimed at other metazoan, plant, and bacterial genomes; full-length cDNA sequencing; and the development of new software tools and new technologies for genome analysis and DNA sequencing.

Positions are currently available for Senior Staff members with expertise in molecular biology, large-scale DNA sequencing, genome mapping, and/or cDNA library construction. Successful candidates will possess a Ph.D. and one to two years of relevant postdoctoral work. Experience in small group management will be a plus. Direct inquiries to:

**Richard K. Wilson, Ph.D.  
Associate Professor of Genetics and Co-Director  
Genome Sequencing Center  
Box 8501  
Washington University School of Medicine  
4444 Forest Park Boulevard  
St. Louis, MO 63108 USA  
Telephone: 314-286-1804  
FAX: 314-286-1810  
E-mail: [rwilson@watson.wustl.edu](mailto:rwilson@watson.wustl.edu)**

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

### STAFF SCIENTIST GENE KNOCKOUT

Wayne Hughes Institute is currently seeking a motivated Staff Scientist to join a multidisciplinary team with experience in targeted gene disruption. The qualified candidate will have an M.S. or Ph.D. degree in molecular biology or related field plus two years of experience in preparing and targeting vectors, ES cell culture, screening of positive KO-ES cells, microinjection of blastocysts, screening and characterizing of knockout mice.

Wayne Hughes Institute has a state-of-the-art research environment, offering a competitive compensation package along with a comprehensive benefits package.

Qualified applicants are requested to forward their curriculum vitae, a statement of research interests, and the names of at least three references to: **Human Resources Department, Wayne Hughes Institute, P.O. Box 8178, St. Paul, MN 55108.** *An Equal Opportunity Employer.*

### U.S. ENVIRONMENTAL PROTECTION AGENCY ENVIRONMENTAL SCIENCE POSITIONS

The Office of Environmental Assessment (OEA) (Seattle) is responsible for human health and ecological risk assessments for hazardous chemicals. OEA has an opening for a permanent **TOXICOLOGIST** with expertise in risk assessment. The Manchester Laboratory has an opening for a **METALS CHEMIST** with expertise in instrumental analyses and evaluation of trace metals from complex environmental samples. For specific application information on either position contact: **Israel Valdez, U.S. Environmental Protection Agency, 1200 6th Avenue, Seattle, WA 98101.** Website: <http://www.epa.gov/r10earth/jobs.htm>; Telephone: 206-553-1240 (Jobline).

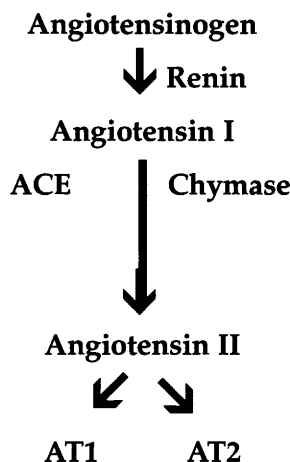
*U.S. EPA is an Equal Employment Opportunity Employer.*

**ASSISTANT/ASSOCIATE SPECIALIST** position available to conduct research on molecular mechanisms of action of naturally occurring anticancer agents and to conduct experiments using molecular techniques including cell culture, RT-PCR, gel mobility shifts, plasmid transfections, promoter deletion analysis, and gene cloning methods. To use GC/MS and HPLC to analyze metabolism in rodents and to assist in coordination of lab operations and preparation of proposals and reports. Applicants must have a Ph.D. in biology, biochemistry, or related field and experience in use of relevant molecular and analytical techniques. Send curriculum vitae and names of three references to: **Dr. L. Bjeldanes, Department of Nutrition Sciences, University of California at Berkeley, Berkeley, CA 94720-3104.** Closing date: May 1, 1998. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

## Drugs, Enzymes and Receptors of the Renin Angiotensin System

13 – 15 July, 1998  
Sydney, Australia

### *Celebrating a Century of Discovery – 1898-1998*



#### Plenary Lecturers

W. Anderson (Aust)	E. Lumbers (Aust)
J. Cohn (USA)	G. Macdonald (Aust)
P. Corvol (France)	N. Maeda (USA)
V. Dzau (USA)	F. Mendelsohn (Aust)
R. Graham (Aust)	M. New (USA)
A. Husain (Aust)	O. Smithies (USA)
S. Izumo (USA)	W. Thomas (Aust)
C. Johnston (Aust)	J. Whitworth (Aust)
S. Karnik (USA)	Y. Yazaki (Japan)
B. Lorell (USA)	

Abstract/Submission Deadline: 7 June 1998

Information and Registration: Ms E. Martin, Victor Chang CRI

384 Victoria Street, Darlinghurst NSW 2010, Australia

Tel: +61-2-9295 8500 Fax: +61-2-9295 8501 e-mail: symposium@victorchang.unsw.edu.au

## SYMPOSIUM

### *HIV RESEARCH AND TREATMENT*

## Cellular Factors

### Targets for the Treatment of HIV Infection

Progetto RIGHT (Research Institute for Genetic and Human Therapy) presents this symposium for clinical researchers, physicians, and basic scientists focused on HIV research and treatment

April 19 - 20, 1998  
Pavia, Italy

This two day meeting will include presentations and discussions led by renown international researchers from the U.S., Europe and Canada on topics that include HIV pathogenesis, mechanisms for interfering with cellular and molecular targets that contribute to HIV replication, agents capable of inhibiting deoxynucleoside triphosphate (dNTP) synthesis, HIV receptors, and immunomodulatory agents.

If you are interested in attending this symposium please contact MediSolutions in the U.S. at (212) 771-5300 or e-mail [rsvp@medisolutions.com](mailto:rsvp@medisolutions.com).

(Please note to refer to this program as the Pavia meeting.)



## EUROPEAN OPPORTUNITIES

The Technische Universität München, Faculty of Medicine, and the GSF-National Research Center for Environment and Health invites scientists to apply for the position of

### Full Professor (C4) for Human Genetics at the Technical University of Munich and Director of the GSF-Institute for Human Genetics

The nomination will be jointly carried out in cooperation of the GSF with the faculty of medicine of the Technische Universität München. The director of the newly founded GSF-Institute of Human Genetics will also hold the chair (C4) of Human Genetics at the Klinikum rechts der Isar of the Technische Universität München.

The GSF is a nonprofit research centre funded by the Federal Government of Germany and the State of Bavaria with approximately 1,600 employees and member of the HGF. Research is focused on activities related to the protection of man and his environment from harmful effects resulting from radiation or chemicals, and using scientific and technical knowledge to improve the provision of health care.

Required is extensive knowledge in the fields of human genetics and tumor genetics. Emphasis should be primarily on aspects of molecular genetics.

The GSF and the Technische Universität München intend to increase the proportion of women in research and teaching and strongly encourage qualified candidates to apply. Priority will also be given to physically disabled persons with equivalent qualification.

Prerequisite for appointment are doctorate and Habilitation or equivalent scientific achievements.

Applications with curriculum vitae, list of publications, references, certificates, and a short proposal should be sent no later than March 31, 1998, to the President of the GSF-National Research Center for Environment and Health, Postfach 11 29, D-85758 Neuherberg, Prof. Dr. Dr. E-G Afting and also to the Dean of the medical faculty at the Technische Universität München, Dekan der Fakultät für Medizin der TU München, Ismaningerstraße 22, D-81675 München.

## POSITIONS OPEN

### PAIN AND DISTRESS INITIATIVE PROGRAM OFFICER The Humane Society of the United States

The Humane Society of the United States (HSUS) invites applications for the position of Program Officer for its new Pain and Distress Initiative, which aims to eliminate pain and distress in animal research and testing by the year 2020. The successful candidate will run the day-to-day aspects of this project. This will include supporting a working group of experts who will draft a technical monograph on pain and distress; enlisting the cooperation of Institutional Animal Care and Use Committees in supporting the initiative; encouraging institutions to implement alternatives to specific techniques that cause significant pain and distress; and encouraging oversight agencies (e.g., National Institutes of Health, U.S. Department of Agriculture) to implement guidelines and policies that further the initiative's objectives. This is an entry-level post for individuals who have a doctoral-level degree (Ph.D., D.V.M.) in biology, veterinary medicine, or related field and a concern for animals and their care. Applicants should send a curriculum vitae, the names and complete contact information for three references, and a cover letter explaining their interests in, and qualifications for, the position, to: **Martin Stephens, Ph.D., Vice President for Animal Research Issues, The Humane Society of the United States, 700 Professional Drive, Gaithersburg, MD 20879. FAX: 301-258-7760; e-mail: martins@ix.netcom.com** by April 30, 1998. *The Humane Society of the United States is an Equal Opportunity Employer.*

### HARVARD MEDICAL SCHOOL RESEARCH COMPUTING SCIENTIST

Working as part of a team, you will provide high-level computing support, technical assistance, and training on research applications for researchers who wish to apply computing to their research goals. You also will assist in building biological information systems for laboratory users in a multipatform and multiprotocol environment. Ideal candidates will possess a high degree of initiative and strong organization, problem solving, and communication skills. We seek candidates with:

Master's degree in biomedical research environment in the application of technology to research and instruction in an academic environment (required). Ph.D. preferred.

Two-plus years of experience with biomedical research applications in a network environment (required); experience with scripting and web development; and UNIX systems administration knowledge preferred. Experience with programming (C/C++/Perl/Java) and documentation a plus.

Solid knowledge and skills with Macintosh and Intel/Windows (required), familiarity with statistical applications, and experience using cross-platform desktop applications.

Interested candidates please send a résumé and cover letter to: e-mail: [resume@warren.med.harvard.edu](mailto:resume@warren.med.harvard.edu) or to: **Beth Schaefer, FAX: 617-432-3280.**

*We are an Equal Opportunity Employer.*

### MOLECULAR IMMUNOLOGISTS

The Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health is recruiting individuals for several **POSTDOCTORAL POSITIONS** for studies on natural killer cell recognition and signaling, antigen presentation by non-classical class I molecules, and the role of  $\beta 1$  integrins in the immune response. Salary commensurate with credentials and research experience.

Qualified and interested candidates should send curriculum vitae and three letters of reference. For more information regarding these positions, contact:

**John E. Coligan, Ph.D.**

Laboratory of Immunogenetics

NIH-NIAID Twinbrook II Facility, Room 205

12441 Parklawn Drive

Rockville, MD 20852

Telephone: 301-496-8247

FAX: 301-402-0259

E-mail: [jcoligan@atlas.niaid.nih.gov](mailto:jcoligan@atlas.niaid.nih.gov)

*NIH is an Equal Opportunity Employer.*

## POSITIONS OPEN



### BIOTECHNOLOGY

Explore the Next Generation in DNA Probe Technology with Gen-Probe. We are currently seeking a highly motivated professional for the following position:

#### RESEARCH SCIENTIST

This position is part of a multidisciplinary team developing next-generation technologies for the capture, amplification, and detection of nucleic acids and their complexes. The successful candidate will possess a Ph.D. in chemistry, chemical engineering, or related discipline with two-plus years of postdoctoral experience in chemistry or molecular biology. Extensive research experience with nucleic acids is required, as is familiarity with nucleic acid structure and its characterization by biophysical methods, especially fluorescence. (Code: G98/35)

Gen-Probe offers dedicated professionals challenging opportunities within a fast-paced corporate environment. Qualified candidates only should send résumés, including job code, to: **Gen-Probe Incorporated, Human Resources Department (Code: G98/35), 10210 Genetic Center Drive, San Diego, CA 92121. FAX: 619-410-8001. Please call our job line at: Telephone: 619-410-8020 or visit our website: [www.gen-probe.com](http://www.gen-probe.com).** *Gen-Probe supports a drug-free work environment. Equal Opportunity Employer.*

#### PROGRAM ASSOCIATE I RECRUITER FOR GRADUATE PROGRAMS IN BIOMEDICAL SCIENCES PA3008

The University of Iowa College of Medicine is recruiting for a Program Associate I position. The qualified individual will design, plan, and promote the recruitment efforts for graduate programs in the biomedical sciences, in particular the Opportunity for Research in Biomolecular Sciences (ORBS) Program, Interdisciplinary Graduate Programs (IDGPs), and the Medical Scientist Training Program (MSTP). Requirements include education and expertise in marketing and advertising with a working knowledge of the biomedical sciences generally associated with a Master's degree in marketing/advertising or related discipline, or an equivalent combination of education and experience. Experience and proficiency in public speaking and technical writing, including preparation of electronic marketing devices (websites, CDs, videos) is required. Strong interpersonal communication skills, PC experience, and experience in creating and managing databases are required. Must be willing to travel. Familiarity with NIH training programs, University of Iowa policies and procedures, especially those of the Graduate College and College of Medicine, is desired. Send letter of application and résumé to: **Ellen Twinam, Departmental Human Resources Specialist, College of Medicine, 272 CMAB, The University of Iowa, Iowa City, IA 52242.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

#### SENIOR RESEARCH TECHNICIAN 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 Number One in the nation for the fifth consecutive year, is seeking applicants for a Senior Research Technician position in the Transgenic Mouse Facility.

The Research Technician's responsibilities include egg injection for the production of transgenic mice, ES cell injection into blastocysts for the generation of chimeric mice, and cryopreservation of embryos. Successful applicants will have a Bachelor's degree and three to five years of research experience in genetics, embryology, and/or molecular biology.

We offer a competitive salary and comprehensive benefits, including 100 percent tuition reimbursement. Please submit curriculum vitae and two letters of recommendation by April 15, 1998, to: **M. Ko, Employment Department, #98064.1R, Memorial Sloan-Kettering Cancer Center, 633 Third Avenue, 5th Floor, New York, NY 10017. E-mail: [browna@mskcc.org](mailto:browna@mskcc.org).** (in ASCII text). *Equal Opportunity Employer/Affirmative Action.*

## POSITIONS OPEN

### SCIENTIFIC REVIEW ADMINISTRATOR

Opening Date: March 16, 1998

Closing Date: April 13, 1998

Announcement Number: CA-98-1918

Interdisciplinary: Biologist, Microbiologist, Chemist, Toxicologist, Epidemiologist, Medical Officer, Pharmacologist, Physiologist, Health Scientist Administrator; GS-401, 403, 1320, 601, 602, 405, 413; GS-13/14.

The Grants Review Branch, Division of Extramural Activities of the National Cancer Institute (NCI), National Institutes of Health (NIH), is seeking an individual to join a multidisciplinary group of Scientific Review Administrators to manage the initial peer review of research grant applications submitted to the NCI. These activities are based in Rockville, Maryland, a suburb of Washington, D.C., but some travel (site visits) will be involved. Candidates should have independent research experience in current methods of cancer-related research. Expertise in cancer clinical trials, cancer prevention and control, cancer epidemiology or genetics, or translational research in cancer pathogenesis would be particularly desirable. Candidates should also be familiar with the NIH grant application, review, and support process. *Candidates must be United States citizens.* The salary range for the position is \$55,969 to \$85,978. To obtain information about the application process or documents required for consideration for this position, candidates may contact: **The National Cancer Institute, Office of Human Resources and Consulting Branch, Telephone: 301-402-2789. To obtain a FAX of this information, Telephone: 1-800-728-5627 or 301-594-2953 and enter FAX ID#1881.** *Selection for this position will be based on merit with no discrimination for nonment reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability. The NCI/NIH is an Equal Opportunity Employer.*

### SCIENTIST UNIVERSITY OF WISCONSIN, MADISON

Applications are being accepted for the position of Scientist in the Division of Allergy, Departments of Medicine and Pediatrics. Applicants must have a Ph.D. degree in immunology or a related field. Experience with rodent models, mechanisms of inflammation, and/or virology would be desirable, but not required. The successful candidate will participate in independent and collaborative research aimed at defining the roles and mechanisms of the inflammatory response in the development of airway dysfunction in an established rodent model of a virus-induced asthma-like syndrome. Interested candidates should send a curriculum vitae and the names of three individuals that may be contacted for references to: **Dr. Robert F. Lemanske, Jr., Room H4-432 Clinical Science Center, 600 Highland Avenue, Madison, WI 53792. E-mail: [rf@medicine.wisc.edu](mailto:rf@medicine.wisc.edu).** *The University of Wisconsin is an Equal Employment Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION** available, starting before May 31, to study molecular structures and mechanical functions of erythroid and nonerythroid membrane network proteins in disease, differentiation, and aging. Recombinant protein expression, mutagenesis, and analyses of transgenic cells/mice will be conducted. Experience in molecular biology is essential. *Must be U.S. citizens or permanent residents.* Please send curriculum vitae and three references to: **Dr. L. Amy Sung, Department of Bioengineering, 0412, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0412. FAX: 619-822-0240; e-mail: [amysung@bioeng.ucsd.edu](mailto:amysung@bioeng.ucsd.edu).**


**POSTDOCTORAL POSITION** available to study bioenergetics of the cytochrome bc<sub>1</sub> complex using both biochemical and molecular biological approaches. Candidates should have a background in molecular biology, enzymology, and membrane protein purification. Send curriculum vitae and names of three references to: **Dr. Diana S. Beattie, Department of Biochemistry, P.O. Box 9142, West Virginia University School of Medicine, Morgantown, WV 26506-9142. E-mail: [dbeattie@wvuhscl1.hsc.wvu.edu](mailto:dbeattie@wvuhscl1.hsc.wvu.edu).** *West Virginia University is an Equal Opportunity/Affirmative Action Employer.*





Greenford, Middlesex


# Clinical Genetics Advisor (Physician)


Competitive Salary and Benefits plus car

One of the World's leading Pharmaceutical Companies 

54,000 people worldwide 

Over £1 billion spend on R&D 

Broad Product Portfolio 

50 ongoing major research projects 

**GlaxoWellcome**  
*Disease has no greater enemy*

Glaxo Wellcome is one of the world's leading research-based pharmaceutical companies, spending in 1997 almost £1.5 billion in researching and developing medicines. We are committed to developing and delivering effective, ethical products which have a demonstrably positive effect on patients the world over.

Our Worldwide Genetics Directorate is expanding and, as a result, we now have an opportunity for an experienced clinical geneticist with experience of conducting genetic studies of patients and their families, to join us at our UK headquarters, based in Greenford, Middlesex.

You will lead a group of scientists who are developing Clinical Genetics networks throughout the UK and Europe, as well as interfacing with external collaborators on a regular basis. The identification of these key academic collaborators in specific disease areas and the development of subsequent academic partnerships will be a primary responsibility. The

work of the Clinical Genetics group is worldwide and you will liaise with counterparts in the USA and the Far East towards the achievement of joint objectives. The post reports to the Director of Clinical Genetics, based in the USA.

In order to meet the challenges of this role, you will be an MD with at least five years' experience of research, particularly related to the field of human genetics. Experience of working with patients and their families in genetic studies is essential. Currently in a leadership role, you have the ability both to initiate projects as well as achieve follow through. Well developed organisational and communication skills are essential, as is the ability to form effective cross border and cross functional working relationships.

You will be rewarded with a first class remuneration package, including non-contributory pension, medical insurance and share options, as well as the opportunity of making a major contribution within a fast expanding area of a truly global organisation.



Please write with full career and salary details, in complete confidence, to Alison Coombs at TMP Worldwide, Recruitment Resources, 32 Aybrook Street, London W1M 3JL, quoting reference CG1.



FRIEDRICH MIESCHER-INSTITUT  
BASEL, SWITZERLAND

The Friedrich Miescher Institute is seeking to fill a new position for a **Junior Group Leader in Bioinformatics.**

This is a tenure-track position for persons who already have postdoctoral experience in this field. The successful candidate will be expected to introduce and develop an independent research project that, while the research area is not specified, should have a long-term scientific impact in an area related to the Institute's ongoing research; for example, in the modeling of complex biological systems. We are seeking a communicative individual who should have a strong interest in interacting with other groups within the institute.

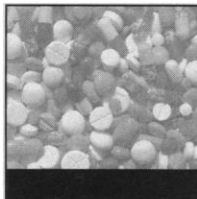
The FMI is a research foundation dedicated to basic research with 22 groups engaged in the fields of Cancer & Growth Control, Gene Expression, Molecular Neurosciences, and Plant Molecular & Cellular Biology. The FMI is associated with the University of Basel and offers outstanding working conditions in an international environment.

Interested applicants should submit a C.V., a list of publications with selected reprints, and an outline of past and proposed research to:

**Search Committee, Dr. Patrick Matthias,  
Friedrich Miescher Institute, Maulbeerstr. 66  
CH-4058 Basel, Switzerland.**

Closing date: April 15th, 1998.

Further particulars about this position can be obtained by telephone or e-mail: **(+41-61-697 66 61; patrick.matthias@fmi.ch)**, and information about the FMI can be obtained under the address: **www.fmi.ch**.



**Jenapharm**  
Research 

## Positions open

Jenapharm, a subsidiary company of Schering AG, seeks applicants for

## two postdoctoral positions in basic biomedical research

The positions require a Ph.D. degree in endocrinology; neurobiology, immunology or cellular/molecular biology; M.D. with basic research interests are also encouraged to apply.

Successful candidates should have working expertise with at least one of the basic molecular techniques (Northern, in situ, EMSA, PCR) or research methods in intracellular signalling to investigate mechanisms of steroid-mediated transcriptional regulation in the nervous and immune system. Fluency in either English or German is a must; communication skills and previous experience in an international environment are appreciated. Self-reliance in problem-solving of routine research tasks is expected.

The company is located in the historic, rapidly developing and prosperous city of Jena, in a pleasant landscape and immediate vicinity of major cultural sites. We offer excellent working facilities, dynamic scientific atmosphere, friendly and motivated staff, and competitive benefits.

Recruitment will continue until the positions are filled. Candidates should submit application packages (résumé, list of publications, names and addresses of two references) to: **Head, research and Development**

**Jenapharm**

Otto-Schott-Str. 15  
D-07745 Jena  
Germany

## POSITIONS OPEN

### PRECLINICAL TOXICOLOGY RESOURCE FOR ALZHEIMER'S DISEASE DRUG DEVELOPMENT

The National Institute on Aging supports a contract for the preclinical toxicology evaluation of compounds that may have value in the treatment of Alzheimer's disease. Individual *U.S. scientists or small businesses* that would otherwise not have sufficient resources for toxicological evaluation of promising compounds can apply for this program. The data generated would be used by a sponsor to apply for an Investigational New Drug designation from the Food and Drug Administration in order to take the compound into human Phase I clinical trials. Before it can be considered for this program, a compound must have sufficient pre-clinical biological and/or behavioral information available to indicate its potential efficacy for the treatment of Alzheimer's disease. For further information contact:

Neil Buckholtz, Ph.D.  
Chief, Dementias of Aging  
Neuroscience and Neuropsychology of  
Aging Program  
National Institute on Aging  
Gateway Building, Suite 3C307  
7201 Wisconsin Avenue MSC 9205  
Bethesda, MD 20892-9205  
Telephone: 301-496-9350  
FAX: 301-496-1494  
E-mail: buckholtz@exmur.nia.nih.gov

**POSTDOCTORAL FELLOW.** University of Hawaii—Manoa, College of Tropical Agriculture and Human Resources, Department of Environmental Biochemistry. Full-time, extramural funds, to begin immediately for one year. Renewal dependent upon performance and availability of funds. Two of three available positions are to study environmental effects of pollutants on endangered species of insects, plants, and marine organisms in Hawaii. Minimum qualification: Ph.D. in analytical or environmental chemistry, or in a related field. Desirable qualification: experience in GC, LC, CE, GC-MS, or LC-MS. Another position is to examine interaction of heptachlor with the GABA receptor. Minimum qualification: Ph.D. in medicinal chemistry, biochemistry, molecular biology, or in a related field. Desirable qualification: experience in photoaffinity labeling. Minimum annual stipend: \$28,415 (full-time); commensurate with experience. To apply: send curriculum vitae with three references (include address, telephone, and e-mail) to: Dr. Q. X. Li, Department of Environmental Biochemistry, University of Hawaii, Henke 329, 1800 East-West Road, Honolulu, HI 96822. Closing date: April 15, 1998. Inquiries, Telephone: 808-956-8352.

### POSTDOCTORAL/RESEARCH POSITIONS ORTHOPAEDIC RESEARCH LABORATORIES Boston University School of Medicine

Positions to investigate: regulatory mechanisms of skeletal tissue specific gene expression; experience in molecular biology, virology, and *in vitro* gene expression. Potential for further faculty development. Send curriculum vitae, copies of relevant publications, and three references to: Louis Gerstenfeld, Ph.D., Director of Orthopaedic Research Laboratory, c/o Michael Roper, Doctor's Office Building, 720 Harrison Avenue, Suite 808, Boston, MA 02118-2393. FAX: 617-638-8493.

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

### POSTDOCTORAL POSITIONS EARLY PATTERNING OF VERTEBRATE EMBRYO University of Utah School of Medicine

Positions are available to work on cell-cell interactions and molecular mediators underlying patterning of the gastrula/neurula stages of chick and mouse embryos. Experience in experimental embryology and/or molecular biology is highly desirable.

Send curriculum vitae to: Gary C. Schoenwolf, Department of Neurobiology and Anatomy, 50 North Medical Drive, Salt Lake City, UT 84132. E-mail: schoenwolf@med.utah.edu. *Equal Opportunity Employer/Affirmative Action.*

## POSITIONS OPEN



### VIRAGEN, INC

Viragen, Inc. is an emerging biotechnology company located in South Florida. We seek to develop novel methodologies for the production of natural cytokines and blood-related products for use as human therapeutics.

#### SENIOR SCIENTIST CELL BIOLOGY

Senior Development Scientist. We are seeking an experienced Senior Development Cell Biologist specializing in leukocyte biology, platelet biology, apoptosis, and cell metabolism. Demonstrated experience in applying fundamental biological knowledge to large-scale cell culture is important. Industrial or postdoctoral experience is desirable.

#### SCIENTIST ANALYTICAL BIOCHEMISTRY AND CELL CULTURE BIOLOGY

Development Scientist: analytical biochemistry/biophysics. Seeking a Scientist with demonstrated expertise in biochemical/biophysical characterization of macromolecules. Relevant laboratory experience highly desirable.

Development Scientist: cell biology. Seeking a Scientist with demonstrated expertise in the areas of cell biology, cell culture, metabolism, and morphological evaluation. Knowledge of the appropriate bioanalytical methods is important. Relevant laboratory experience highly desirable.

#### BIOASSAY MANAGER

Seeking an individual with Ph.D. or M.S. in biology/biochemical chemistry or related field. This position requires three to five years of bioanalytical/cell-based bioassay experience. The successful candidate will be involved in the development and implementation of various bioassays of cytokines, blood components, and related products.

Viragen, Inc. maintains a fully interactive team approach across all disciplines. Successful candidates will become fully integrated into our team environment. To apply, please send your curriculum vitae to:

Joseph P. Morris, Ph.D.  
Vice President, Research and Development  
Viragen, Inc.  
2343 West 76th Street  
Hialeah, FL 33016  
FAX: 305-364-8158.

*We are an Equal Opportunity Employer dedicated to diversity and strong intellectual development.*

Two **POSTDOCTORAL POSITIONS** at Dana-Farber Cancer Institute are available immediately.

Seeking two Scientists to join dynamic research team engaged in studying SIV/HIV pathogenesis. One position involves investigating the role of dendritic cells during disease progression, whereas the other involves studying antiviral immune responses and passive immunoprophylaxis. Experience in virology, dendritic cell biology, and/or general immunology highly desirable. Send curriculum vitae and names of three references to: Dr. Ruth Ruprecht, Dana-Farber Cancer Institute, One Jimmy Fund Way, Boston, MA 02115. E-mail: ruth\_ruprecht@dfci.harvard.edu. *We are an Equal Opportunity Employer.*

#### POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study immunochemical and cellular aspects of mucosal immunity. Experience in cellular immunology required. Background in molecular biology is also desirable. Send curriculum vitae and names of three references to: Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University Medical School, 540 East Canfield Avenue, Detroit, MI 48201. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, vehicles, and students at WSU are smoke-free. Wayne State University—People working together to provide quality service.*

## POSITIONS OPEN

### POSTDOCTORAL POSITION CARDIOVASCULAR MOLECULAR BIOLOGY

The laboratory uses gene knockout and transgenic technologies to explore questions of cardiovascular development, differentiation, and function. Integrative approaches involving molecular genetics, biochemistry, cell biology, and whole organ and animal physiology are used. Candidates should have the Ph.D. or M.D. and experience either in molecular genetics, muscle mechanics, or cardiovascular physiology. Please mail or FAX your curriculum vitae and a description of your research interests to: Dr. Jeffrey Robbins, Professor and Director, Division of Molecular and Cardiovascular Biology, Children's Hospital, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-3852; e-mail: jeff.robbins@chmcc.org. *Children's Hospital is an Affirmative Action/Equal Opportunity Institution.*

#### POSTDOCTORAL RESEARCH

Two positions are available in the laboratory of Melvin Berger, M.D., Ph.D., Departments of Pediatrics and Pathology, Case Western Reserve University (CWRU), Cleveland, Ohio:

(1) Studies of regulation of cytokine production by airway epithelial cells in the context of cystic fibrosis. Experience with epithelial cell culture and analysis of mRNA and/or *in situ* hybridization required.

(2) Studies of expression, subcellular localization, and function of complement receptor type 1 (CR1), emphasizing mutated and chimeric receptor constructs. Experience with recombinant DNA, transfection of mammalian cells, and confocal microscopy required.

*U.S. citizenship or permanent resident status required. Contact: Dr. Melvin Berger, Immunology Division, Department of Pediatrics, Case Western Reserve University, 11100 Euclid Avenue, Cleveland, OH 44106. FAX: 216-844-7587; e-mail: mxb12@po.cwru.edu. CWRU is an Equal Opportunity/Affirmative Action Employer.*

#### VISITING POSTDOCTORAL POSITION

A Visiting Postdoctoral position is available to study genotype/phenotype correlations involving genes of xenobiotic metabolism and studies of fetal hydatin syndrome, oral clefting, and oral cancer. Recent Ph.D. training in biochemistry/molecular biology, molecular toxicology, pharmacology, or related field is desirable. Previous research experience in HPLC is essential. The successful applicant will have the opportunity to broaden his/her knowledge in the areas of medical and molecular genetics. Applicants should send curriculum vitae, summary of research experience, and the names of three references to:

Dr. James K. Hartsfield, Jr.  
Oral-Facial Genetics  
Indiana University School of Dentistry  
1121 West Michigan Street, Room 270  
Indianapolis, IN 46202  
E-mail: jhartsfi@iustd.iupui.edu

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

#### RESEARCH POSITIONS

**POSTDOCTORAL and RESEARCH FELLOW POSITIONS** available to study DNA mismatch repair mechanism and carcinogenesis. Projects include molecular cloning, mutagenesis, DNA sequencing, PCR, protein purification, enzyme assay, and tissue culture. Training in biochemistry, molecular biology, yeast genetics, or related field required. Send curriculum vitae and the names of three references to: Dr. A-Lien Lu-Chang, Department of Biochemistry and Molecular Biology, University of Maryland at Baltimore, 108 North Greene Street, Baltimore, MD 21201. E-mail: aluchang@umaryland.edu. *Equal Opportunity Employment/Affirmative Action.*

**POSTDOCTORAL POSITION** available immediately to study cyclic nucleotide-activated channels using patch clamp electrophysiology, molecular biology, and modeling. Background in biochemistry preferred. Send curriculum vitae and names of three references to: Dr. Jacqueline Tanaka, 327 Levy Building, Department of Pathology, School of Dental Medicine, 4010 Locust Street, University of Pennsylvania, Philadelphia, PA 19104-6002.



# Bioinformatics

## INTERNATIONAL ROLES IN A KEY RESEARCH ACTIVITY

Rhône-Poulenc Rorer has a strong computational biology group based in Evry, close to the French Genome Project and Généthron, and we are currently looking for the following key positions:

### Head of Computer Biology

Leading the bioinformatics effort, you will manage the core bioinformatic activities distributed in our 4 research sites: Dagenham (UK), Colledgeville and Santa Clara (US) and Vitry/Evry (France). The mission of this position is to ensure that the enormous amount of data generated by genetic mapping, HT sequencing, proteomics and transcript profiling activities is effectively utilised for new target identification across all therapeutic areas.

We need a leader with special qualifications dictated by this new field to develop strategy, evaluate technologies, create tools and technologies and design education programs for scientists.

A PhD in Biological Sciences and degree in Computer Sciences, as well as 5-7 years' experience in a relevant broad range of applications and systems with a special focus on bioinformatics, are required. Excellent leadership skills, a truly pioneering approach and the ability to function in a multi-disciplinary environment are critical. This role can be based in France or in the UK.

### Bioinformatics Specialists

Rhône-Poulenc Rorer is using industry standard and proprietary software tools and databases to analyse DNA, protein sequence and gene expression data for genomics research exploring functional biology for the discovery of

novel pharmaceutical targets relevant to all therapeutic areas. We have several new Computer Biologists roles available within our Core Computer Biology group based in Evry (F), and with representatives in each of our biology departments in Vitry (F), Colledgeville and Santa Clara (US), and Dagenham (UK).

These roles require strong experience with the use of industry standard analysis software (GCG, BLAST, GRAIL, hidden Markov models, etc.) and at least an MSc/PhD degree or equivalent in Molecular Biology or Computational Biology. Knowledge of Perl, HTML, UNIX and SQL is required. Excellent communication skills, a strong customer orientation and the ability to operate in a multi-disciplinary and international environment are critical.

All roles offer an attractive compensation and benefits package and managed relocation assistance. For consideration, please send résumé and the names of three professional referees to M.J. Bildstein, Human Resources, Rhône-Poulenc Rorer, Centre de Recherche de Vitry/Alfortville, 13 Quai Jules Guesde, B.P. 14 94403 Vitry sur Seine Cedex, France. E-mail: Marie-Josée.BILDSTEIN@RP-Rorer.FR

Please indicate preferred location as follows: **Ref: BIOINF1** for Vitry/Evry (France); **Ref: BIOINF2** for Colledgeville (US); **Ref: BIOINF3** for Santa Clara (US); **Ref: BIOINF4** for Dagenham (UK).



## THE UNIVERSITY OF LEEDS SCHOOL OF CHEMISTRY

### Research Fellow

The above postdoctoral position in femtosecond laser spectroscopy and chemical reaction dynamics is available immediately for a fixed period of up to three years. The project, funded under the TMR programme of the European Commission, will involve the application of self-mode locked Ti:sapphire lasers to probe photofragmentation reaction dynamics through experiments designed to probe the evolving wave packet.

Applicants should have a PhD in a relevant discipline (e.g. Physics or Chemical Physics) and experience in the use of molecular beams and/or femtosecond laser systems.

Salary will be on the scale for Research Staff Grade IA within the range £15,159 - £18,494 p.a. according to qualifications and relevant experience.

Further details about the position may be obtained from Dr Benjamin Whitaker, tel: 44 (0)113 233 6580; fax: 44 (0)113 233 6565; e-mail b.j.whitaker@chem.leeds.ac.uk or Professor Godfrey Beddard tel: 44 (0)113 233 6508; fax: 44 (0)113 233 6565; e-mail g.s.beddard@chem.leeds.ac.uk In all enquiries please quote ref: 043-094-004-027.

Closing date for applications 31 May 1998.

The TMR programme rules require that the appointee is a citizen of one of the European Community countries or one of its associated states: Iceland, Israel, Liechtenstein or Norway, and not a UK citizen.

The University of Leeds promotes an Equal Opportunities Policy.

## UNIVERSITY OF ST ANDREWS SCHOOL OF BIOMEDICAL SCIENCES

### POSTDOCTORAL RESEARCH FELLOW

This position of Postdoctoral Molecular Virologist/Cell Biologist will be supported by the BBSRC for 3 years. You will work on the interaction of (paramyxoviruses) with intracellular pathways and cellular anti-viral responses. Informal enquiries to Dr R Randall, e-mail: rer@st-and.ac.uk, tel no: 01334 463397.

Salary will be at the appropriate point on the IA scale for research staff, i.e. £15,159 - £22,785 per annum.

Application forms and further details from Personnel Services, University of St Andrews, College Gate, North Street, St Andrews, Fife KY16 9AJ, (tel: 01334 462571; fax: 01334 462570; e-mail: Jobline@st-andrews.ac.uk).

Applications cannot be made by e-mail. Please quote ref: KC172/ABS1/98. Closing date: 24 April 1998.

The University operates Equal Opportunities and  
No Smoking Policies



## POSITIONS OPEN

### THE SLOAN CENTER FOR THEORETICAL NEUROBIOLOGY AT CALTECH OFFERS POSTDOCTORAL FELLOWSHIPS

Postdoctoral Fellowships are available from the Sloan Center for Theoretical Neurobiology at Caltech, which promotes integration of theoretical and experimental work in neurobiology. Applicants must have a background in physics, mathematics, engineering, computer science, or similar theoretical disciplines and wish to do research in theoretical neurobiology by working in experimental neurobiology laboratories. Typically, a Sloan Fellow works closely with two sponsors from the Caltech faculty participating in the Sloan Center, one from a theory laboratory and one from an experimental laboratory. Theoretical faculty include Abu-Mostafa, Barr, Bruck, Goodman, Koch, Mead, Mitra, Perona, and Psaltis. Experimental faculty include Allman, Andersen, Bower, Fraser, Konishi, Laurent, Lester, Pine, and Shimojo. Please submit a curriculum vitae, two or three letters of recommendation, and a brief research proposal or description of research interest. Please send applications or requests for more information to: Richard Andersen, MC 216-76, Division of Biology, California Institute of Technology, Pasadena, CA 91125 USA. E-mail: [cierina@vis.caltech.edu](mailto:cierina@vis.caltech.edu). Application deadline is May 15, 1998.

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

### POSTDOCTORAL POSITION IN HUMAN CANCER CYTOGENETICS

A Postdoctoral position is available immediately in the expanding Division of Human Cancer Genetics, under the leadership of Dr. Albert de la Chapelle, to join a highly interactive group working on the identification of cancer susceptibility genes involved in human brain cancers and childhood cancer syndromes. Proven experience in molecular cytogenetics, FISH, and comparative genome hybridization (CGH) required. Applicants should be highly motivated with an interest in novel technologies. The successful candidate is expected to maintain a CGH facility for the brain tumor group. The possibility for Board certification exists. The position is for at least two years. Please send curriculum vitae and names of three references to: Ralf Krahe, Ph.D., Division of Human Cancer Genetics, Medical Research Facility, Room 438, 420 West 12th Avenue, Columbus, OH 43210. Telephone: 614-688-4766; FAX: 614-688-4761; e-mail: [krahe.2@osu.edu](mailto:krahe.2@osu.edu).

Equal Opportunity/Affirmative Action Employer.

The Division of Vaccine Research in the Institute of Human Virology has a POSTDOCTORAL POSITION available immediately for an outstanding individual who has obtained the degree of Ph.D. or equivalent in cellular immunology. The incumbent will join a team of highly motivated and experienced Molecular Biologists and Immunologists to conduct basic and applied research on novel oral HIV-1 nucleic acid vaccines. Preference will be given to applicants with expertise and/or an interest in mucosal immunology and HIV-1 vaccine development. Applications should arrive by no later than April 14, 1998, and should contain a brief letter outlining the applicant's research interests, a current curriculum vitae, and three letters of reference from qualified referees. Applications sent by mail should be addressed to: Dr. David Hone, Institute of Human Virology, Medical Biotechnology Center, 725 West Lombard Street, Baltimore, MD 21201 USA. Applications can also be sent by e-mail: [hone@umbi.umd.edu](mailto:hone@umbi.umd.edu). UMBI is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and applicants with disability are encouraged to apply.

**POSTDOCTORAL POSITION** in molecular/developmental neurobiology gene transcription available immediately to study the role of POU domain transcription factors in neural development. NIH-funded study utilizing molecular, genetic, and cellular approaches to study neural-specific gene expression during *Drosophila* development. We are seeking Ph.D.'s experienced with the molecular biology of transcription factors, *Drosophila* genetics, or confocal microscopy. Send curriculum vitae and names of three references to: Dr. Wayne A. Johnson, University of Iowa, Department of Physiology and Biophysics, 6-430 Bowen Science Building, Iowa City, IA 52242. FAX: 319-335-7330; e-mail: [wayne-a-johnson@uiowa.edu](mailto:wayne-a-johnson@uiowa.edu). The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

## POSITIONS OPEN



### The University of Georgia

#### POSTDOCTORAL POSITION

An NIH-funded Postdoctoral position is available immediately to participate in one of two projects. One project involves protein structure-function, and kinetic studies on enzymes of the mammalian heme synthetic pathway including ALA synthase, protogen oxidase, and ferrochelatase. The second project examines gene regulation of erythroid and nonerythroid heme synthesis. This also involves generation and characterization of transgenic mouse models of human porphyrias.

An additional position may become available in July, 1998, to study structure-function and regulation of the protein augmentor of liver regeneration (ALR) (also known as HHS).

Please send curriculum vitae (including e-mail address) and the names of three references to:

Dr. Harry A. Dailey  
Department of Biochemistry and Molecular Biology  
University of Georgia  
Athens, GA 30602-7229  
E-mail: [dailey@bscr.uga.edu](mailto:dailey@bscr.uga.edu)

### THE UNIVERSITY OF TEXAS M. D. ANDERSON CANCER CENTER

**POSTDOCTORAL POSITION.** Postdoctoral Fellowship available immediately to study the effects of dermal exposure by toxic volatile chemicals and jet fuels on immune function. Experience in cellular immunology, especially the role of cytokines in regulating the immune response, is necessary. Measurement of immune function in an animal model system required as well as measurement of cytokine expression *in vitro*. Immunotoxicology background would be helpful. Please send curriculum vitae and a list of three references to: Stephen E. Ullrich, Ph.D., The University of Texas M. D. Anderson Cancer Center, Department of Immunology-178, 1515 Holcombe Boulevard, Houston, TX 77030. Telephone: 713-792-8593; FAX: 713-745-1633; e-mail: [sullrich@notes.mdacc.tmc.edu](mailto:sullrich@notes.mdacc.tmc.edu). M. D. Anderson Cancer Center is an Equal Opportunity Employer; smoke-free environment.

**A POSTDOCTORAL RESEARCH FELLOWSHIP** position is available involving studies of the primary mechanisms of Alzheimer's disease in regard to homeostasis of amyloid  $\beta$  protein, apolipoprotein E, and related molecules in living animals. Background in biochemical analysis preferred and experience with animal research desired. This work involves a collaboration among the laboratories of Dr. Robert P. Friedland, Dr. George Perry (pathology), and Dr. Joseph LaManna (anatomy). Send curriculum vitae to: Dr. Robert P. Friedland, Department of Neurology, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106. E-mail: [rfp2@po.cwru.edu](mailto:rfp2@po.cwru.edu); Telephone: 216-368-1912; FAX: 216-368-1989. In Employment as in Education, CWRU is committed to Affirmative Action and Equal Opportunity.

**POSTDOCTORAL/RESEARCH INVESTIGATOR.** To join Division of Pulmonary and Critical Care Medicine in an academic medical center. Current research works include cardiopulmonary interactions, mechanisms of inflammation in shock, and neurobiological control of sleep apnea. Applicant should have experience in immunology, molecular biology, cell culture, and monoclonal antibodies. Send curriculum vitae and three letters of reference to: Harry Steinberg, M.D., Division of Pulmonary and Critical Care Medicine, Room C-20, Long Island Jewish Medical Center, 270-01 76th Avenue, New Hyde Park, NY 11040. FAX: 718-470-1035. LJMC is the Long Island campus for the Albert Einstein College of Medicine. North Shore-Long Island Jewish Health System is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION LEUKEMOGENESIS

A funded position is available to study leukemogenesis and control of myelopoiesis by CBF oncoproteins and C/EBP $\alpha$  (see: *Mol. Cell. Biol.* 14:5558, 1994; *Mol. Cell. Biol.* 16:4717, 1996; *Oncogene* 15:1315, 1997). Send curriculum vitae and names of references to: Dr. Alan Friedman, Johns Hopkins Oncology Center, Room 3-109, 600 North Wolfe Street, Baltimore, MD 21287. FAX: 410-955-8897. Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN THE MINNESOTA PAIN RESEARCH TRAINING PROGRAM

The Academic Health Center (AHC) at the University of Minnesota has Postdoctoral Fellowships available for individual training in the integrative study of pain, inflammation, and wound healing. Fellows will work collaboratively with at least two mentors chosen from a field of more than 40 National Institutes of Health (NIH)-funded Investigators who are associated with the Training Program. The emphasis will be on developing novel and interdisciplinary approaches for understanding the mechanism of pain, inflammation, and wound healing and the potential for developing new therapies in these fields. The AHC has state-of-the-art facilities for the generation of transgenic animals, pharmacology, confocal imaging, electrophysiology, cell and molecular biology, and clinical studies. As many as three new Fellows will be accepted into this program in 1998. We are looking for highly motivated, innovative scientists who are interested in working in an interdisciplinary environment and who ultimately desire a career in academia or industry.

Trainees must be a citizen or a noncitizen national of the United States or have been lawfully admitted for permanent residence at the time of appointment.

Send curriculum vitae and three letters of recommendation by April 15, 1998, to: Dr. Patrick Mantyh, Director, Minnesota Pain Research Training Program, Department of Preventive Sciences, School of Dentistry, University of Minnesota, 18-208 Moos Tower, 515 Delaware Street S.E., Minneapolis, MN 55455.

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

### PLANT BIOLOGY PENN STATE

**POSTDOCTORAL FELLOWSHIPS** to develop cross-disciplinary research on biochemical, molecular, or physiological mechanisms of plant responses to the environment, and/or in their ecological, population, or evolutionary consequences. Postdoctorates will be expected to develop collaborative projects involving two or more of 24 participating faculty and more than one level of organization (i.e., biochemical/molecular, physiological, ecological). Must be U.S. citizen or permanent resident, have a Ph.D., and no more than five years of postdoctoral experience. Send curriculum vitae, three letters of reference, and a letter describing research interests to: Jack Schultz, Pesticide Research Lab, e-mail: [ujq@psu.edu](mailto:ujq@psu.edu); Telephone: 814-863-4438 or: Eva J. Pell, 321 Buckhout Laboratory, Penn State University, University Park, PA 16802. E-mail: [ejp@psu.edu](mailto:ejp@psu.edu); Telephone: 814-865-0323.

An Affirmative Action/Equal Opportunity Employer; women and minorities encouraged to apply.

**POSTDOCTORAL POSITION** in neurophysiology/neuroscience available immediately to study long-term alterations in the function of ligand-gated (GABA or glutamate) ion channels in the mammalian central nervous system. Candidates with a strong background in electrophysiology/patch clamping are encouraged to apply, although all qualified applicants will be considered. Send a description of research experience, curriculum vitae, and names of three references to: Dr. I. Mody, Professor of Neurology and Physiology, Department of Neurology RNRC 3-131, UCLA School of Medicine, 710 Westwood Plaza, Los Angeles, CA 90095-1769. FAX: 310-825-0033; e-mail: [mody@ucla.edu](mailto:mody@ucla.edu).

Harvard Medical School. **POSTDOCTORAL POSITIONS** in biological/social psychiatry. Research training in both psychobiological and psychosocial areas with integrative seminar: for M.D.'s (including residents) and Ph.D.'s who are U.S. citizens or permanent residents. Fellowships begin summer 1998. Stipends: \$20,292 to \$33,012. Deadline April 15, 1998; rolling thereafter. Contact: Clinical Research Training Program, Department S., Judge Baker Children's Center, 3 Blackfan Circle, Boston, MA 02115. Telephone: 617-232-8390, ext. 2559. Minorities and M.D.'s encouraged to apply.

**POSTDOCTORAL POSITION** available immediately to study the regulation of development of African trypanosomes. Experience in molecular biology and biochemistry is required. Must have a recent Ph.D. and/or M.D. degree. Send curriculum vitae and names of three references to: Dr. C. C. Wang, Department of Pharmaceutical Chemistry, University of California at San Francisco, San Francisco, CA 94143-0446. FAX: 415-476-3382; e-mail: [ccwang@cgl.ucsf.edu](mailto:ccwang@cgl.ucsf.edu).



## MAX-PLANCK-INSTITUTE for Neurobiology

The Max-Planck-Institut für Neurobiologie (formerly: MPI für Psychiatrie, Theoretisches Institut) in Munich-Martinsried, Germany offers the opportunity to set up an

### Independent Research Group

The ideal candidate is younger than 35 years, has a proven research record, and will synergize with, and benefit from, at least one of the following research areas established in the Institute's Departments:

- Neurobiochemistry (Y.-A. Barde): Biology and Molecular Biology of Neurotrophins
- Neuroimmunology (H. Wekerle): Interactions between the Nervous and the Immune System (Multiple Sclerosis)
- Neuromorphology (G. Kreutzberg): Peripheral Nerve Regeneration and Microglial Cells
- Neurophysiology (T. Bonhoeffer): Structure, Function, and Development of the Visual Cortex, Mechanisms of Synaptic Plasticity in the CNS

and Research Groups:

- M. Götz: Mechanisms of Regional Specification in the Vertebrate CNS
- S. Stamm: Molecular Mechanisms and Function of RNA Splicing in Neurons
- H. Thoenen: Storage and Release of Neurotrophins, Roles of Neurotrophins in Synaptic Plasticity

The contract is at Associate Professor level. (German University scale C2-C3) limited to 5 years. The institute will provide appropriate laboratory space, equipment, and running costs, as well as the salaries for one additional scientist, one graduate student, and one technician. The deadline for applications is April 15, 1998. Applicants should submit their CV, list of publications, and a short outline of their scientific work—both achieved and planned—to: **Hartmut Wekerle, M.D., Geschäftsführender Direktor, Max-Planck-Institut für Neurobiologie, D-82152 Martinsried.**

## COURSES & TRAINING

### HYPERTENSION SUMMER SCHOOL (HTSS) 1998 October 4-9, Schloß Salza near Kiel, Germany

Cosponsored by the European Society of Hypertension (ESH); German Hypertension Society; German Institute for High Blood Pressure Research, Heidelberg; College de France, INSERM, Paris; World Hypertension League (WHL).

**Course description:** This course is to provide a one-week intensive learning experience for recent M.D. and Ph.D. graduates who wish to pursue a career in clinical and experimental high blood pressure research. Maximum class size will be 25 students. Language of instruction will be English. Students will interact actively with faculty during teaching sessions. Each student will be expected to give a presentation on an assigned topic during one of the teaching sessions. This presentation will be based on materials provided by the faculty member responsible for the teaching session.

**Topics covered:** Brain mechanisms, Cardiac mechanisms, Clinical Pharmacology, Epidemiology, Molecular genetics, Primary Prevention, Receptors and signaling, Renal mechanisms, Steroids, Transgenic models, Vascular biology and physiology.

**Venue:** Schloß Salza near Kiel is one of the most beautiful stately manor houses built in the late 19th century and represents the vivid history of Schleswig-Holstein, Germany. Placed near the Baltic Sea, it provides a picturesque setting for study and leisure. Schloß Salza is 30 minutes away from Kiel Airport and 90 minutes from Hamburg Airport.

**1998 Faculty:** M. Azizi, Paris; A. Balmforth, Leeds; A. Capponi, Geneva; M. Castellano, Brescia; M. Fernandez, Madrid; H. Haller, Berlin; M. Haass, Heidelberg; H. W. Hense, Münster; R. Kreutz, Berlin; J.L. Elghozi, M. Paul, Berlin; J. Reid, Glasgow; R. Rettig, Greifswald; E. Ritz, Heidelberg; L. Ruilope, Madrid; A. Sharma, Berlin; B. Schieffer, Hannover; Th. Unger, Kiel; B. Waeber, Lausanne.

**Applications:** To apply, please send a C.V. with publication list, two letters of reference, and a note indicating your scientific and personal interests and expectations with regard to the course no later than June 15, 1998, to: **Hypertension Summer School, Attn.: Dörte Lempcke, Inga Rosenfeld, Institut für Pharmakologie, Hospitalstr. 4, 24105 Kiel, Germany.** Course fee, including materials and accommodation, is 200-German marks. A number of travel grants are available, and students in need are encouraged to apply informally. The Hypertension Summer School is supported by educational grants from ASTA Medica AWD and Boehringer Ingelheim KG.

## MEETING

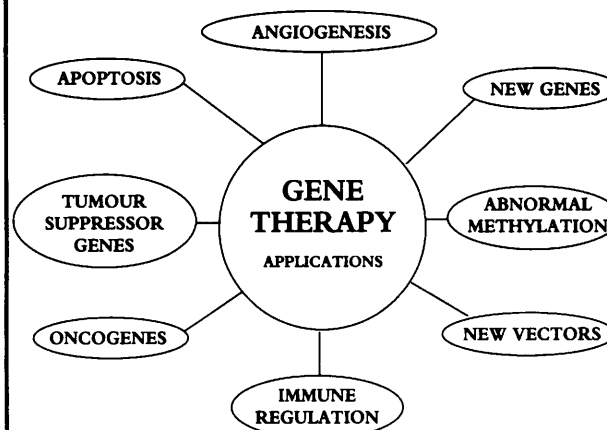
### Imperial College School of Medicine

#### Postgraduate Short Courses



## 3rd International Cancer Gene Therapy Meeting

28 - 29 May 1998



For Scientists & Clinicians in the Cancer Research Field

Poster Abstracts invited - deadline 27 April

Session	Invited speakers
I Apoptosis	A Pietersen (Leiden), D Caput (France), W El-Deiry (Pennsylvania)
II New Vectors	D Bermudes (Connecticut), JE Rabinowitz (North Carolina), RL Momparler (Montreal)
III Abnormal Methylation	P Jones (Los Angeles), A Wellstein (Washington), J Nguyen (Boston), J Folkman (Boston)
IV Angiogenesis	G Inchauspe (Lyon), Y Guo (San Diego), K Lyerly (Durham), P Walden (Berlin)
V Immunoregulation	JA Merrit (Houston), A Venook (San Francisco), A Puumalainen (Kuopio)
VI Clinical Trials	M Sunamura (Japan), T Seya (Japan), P Seth (Bethesda), P Fisher (New York)
VII New Systems	S Freeman (New Orleans), C Springer (London), I Royston (San Diego), N Nevin (London)
VIII Suicidal Genes	

Course organiser:	Dr Nagy Habib
Course fee:	£100.00 (including catering) (£50.00 junior doctors)
Further details from:	Wolfson Conference Centre Imperial College School of Medicine The Hammersmith Hospital Du Cane Road London W12 0NN, UK
Tel: +44 (0) 181 383 3117/3227/3245	
Fax: +44 (0) 181 740 4950	
Email: wcc@rpms.ac.uk	

## POSITIONS OPEN

### THE SALK INSTITUTE POSTDOCTORAL POSITION

The Salk Institute for Biological Studies is seeking applicants for a Postdoctoral position. Applicants must be citizens of the United States of America or permanent residents to qualify for this training grant position. Our integrative program involves the molecular, cellular, and physiological aspects of the control of gene transcription and hormone release by alcohol in isolated cells and wild-type or mutant rodents. Applicants must have obtained their Ph.D. within the last two years.

Please send curriculum vitae, three letters of recommendation, and a one- to three-page summary of research interests to:

**Dr. Catherine Rivier**  
The Salk Institute  
Peptide Biology Laboratory  
10010 North Torrey Pines Road  
La Jolla, CA 92037  
Website: [www.salk.edu](http://www.salk.edu)

*Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** in cancer biology is available immediately to study new chemotherapeutic agents for the treatment of prostate cancer. We are carrying out preclinical development of a series of new agents that target members of the signaling cascade and cell cycle regulators. The candidate will be involved in mechanistic studies as well as in preclinical testing. A strong background in cell biology, pharmacology, and/or toxicology is required. Experience in animal models, tumor xenografts, and spheroid technology is highly desirable. Salary is commensurate with experience, and an excellent benefits package is offered. Research is supported by CaP Cure and will be conducted in the laboratory of **Neal Rosen, M.D., Ph.D.** Submit a letter of interest, curriculum vitae, and the names of three references to: **Howard Scher, M.D., Chief, Genitourinary Oncology Service, Department of Medicine, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.** Memorial Sloan-Kettering Cancer Center is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL FELLOWSHIPS** available in substance abuse research, for training in behavioral pharmacology/pharmacogenetics, systems physiology/pharmacology, and cell/molecular biology. Visit our website: <http://www.ohsu.edu/som-Behneuro/>. A background in a neuroscience area is preferred, and U.S. citizenship or permanent residency is required. Stipend is in accord with NIH scales (\$20,292 to \$33,012, depending on experience). Send application letter, curriculum vitae, and three letters of reference to: **Dr. Chris Cunningham, c/o Ginger Ashworth, Department of Behavioral Neuroscience, L470, Oregon Health Sciences University, Portland, OR 97201-3098.** Oregon Health Sciences University is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION MIT

Immediate opening to study chemical, biochemical, and molecular aspects of oxidative DNA damage. Prefer recent Ph.D. with quantitative background in DNA biochemistry and PCR with experience in mammalian cell culture and molecular biology. Send, FAX, or e-mail curriculum vitae, names and telephone numbers of three references, and a statement of research interests to: **Prof. Peter Dedon, Division of Toxicology, 56-787, MIT, Cambridge, MA 02139.** FAX: 617-258-0225; e-mail: [pcdedon@mit.edu](mailto:pcdedon@mit.edu).

An NIH-funded **POSTDOCTORAL POSITION** is available to study molecular mechanisms of somatostatin signaling in kidney cells. A background in molecular and cellular biology required. Send curriculum vitae and names of three references to: **Martin A. Turman, M.D., Ph.D., Section of Pediatric Nephrology, The Ohio State University, Children's Hospital, 700 Children's Drive, Columbus, OH 43205.** FAX: 614-722-6482; e-mail: [mturman@chi.osu.edu](mailto:mturman@chi.osu.edu).

A **POSTDOCTORAL POSITION** in molecular biomechanics is available. The position is appropriate for a trainee experienced in protein chemistry, biophysics, molecular biology, cell biology, or biomedical engineering. Send curriculum vitae and the names of three references to: **Dr. Zong-Ping Luo, Orthopedic Biomechanics Lab, 128 Guggenheim Building, Mayo Clinic, Rochester, MN 55905.** E-mail: [luo.zongp@mayo.edu](mailto:luo.zongp@mayo.edu); FAX: 507-284-5392.

## POSITIONS OPEN



The USDA, Agricultural Research Service (ARS), is seeking a highly motivated temporary scientist **POSTDOCTORAL ASSOCIATE** position, not to exceed two years, to conduct research on transformation of pear (*Pyrus communis*) for disease resistance. The research will require gene vector construction and testing, the production of transgenic pear plants, and assays of gene insertion, gene expression, and disease resistance in both pear and herbaceous model systems. Candidates must have a high level of expertise in plant molecular biology and skill in plant transformation. Salary is commensurate with experience, (GS-9/11) \$32,457 to \$39,270; benefit package is also included (health and life insurance). For further information on the position, contact: **Ralph Scorza or Richard Bell, Telephone: 304-725-3451.** For application information and forms contact: **Janie E. Carr, Telephone: 301-344-4569.** Applications must be postmarked by April 17, 1998. USDA/ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION

The Laboratory of Cardiac Energetics is developing a program in cardiovascular MRI. This program is devoted to the development and implementation of new MRI techniques in the study of cardiac function, perfusion, and viability in man as well as model systems. A devoted MRI system (1.5T) constructed specifically for cardiac MRI has been installed in the laboratory, along with whole-body 4T and animal scale systems. Projects include high spatial resolution studies of cardiac function and perfusion, MR contrast agent development, angiography, plaque characterization, and water-macromolecule interactions with the myocardium in normal volunteers, patients, and model systems. Experience in MR or cardiac physiology/cardiology is desirable. Either a Ph.D. or M.D. is required. Contact: **Robert S. Balaban, Laboratory of Cardiac Energetics, National Heart, Lung, and Blood Institute, Building 10, Room B1D-161, Mail Stop 1061, Bethesda, MD 20892-1061.** NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to join a research team investigating the physiological and pharmacological properties of nociceptive nerve endings in the lungs. Intracellular recording techniques will be applied to study the transduction mechanisms involved in the activation of cultured pulmonary sensory neurons by various endogenous inflammatory mediators. Background in neurophysiology, pulmonary physiology, and/or cell biology is desirable. Salary competitive and commensurate with experience. Applications accepted until position filled. Please send résumé and the names of two references to: **Lu-Yuan Lee, Ph.D., Department of Physiology, University of Kentucky Medical Center, Lexington, KY 40536-0084.** Telephone: 606-323-6339; FAX: 606-323-1070; e-mail: [lylee@pop.uky.edu](mailto:lylee@pop.uky.edu).

### POSTDOCTORAL POSITION

The Ruttenberg Cancer Center at the Mount Sinai School of Medicine has a Postdoctoral position immediately available to study the mechanisms of action of enzymes involved in human nucleotide excision repair and the coordination between repair and cell cycle checkpoints. Prior experience in molecular biology or protein biochemistry is highly desirable. Please send curriculum vitae and the names of three references to: **Dr. Zhen-Qiang Pan, Mount Sinai School of Medicine, Box 1130, DHR Cancer Center, 15-23 East Building, One Gustave L. Levy Place, New York, NY 10029-6574.** FAX: 212-849-2446; e-mail: [zq\\_pan@smtpink.mssm.edu](mailto:zq_pan@smtpink.mssm.edu). We are an Equal Opportunity Employer fostering diversity in the workplace.

**POSTDOCTORAL POSITION** available immediately to study vesicular traffic in intestinal epithelial cells. Should have experience in protein chemistry and immunological techniques. Send curriculum vitae and have three references write directly to: **Dr. Charles Mansbach, University of Tennessee, Room 555D, 951 Court Avenue, Memphis, TN 38120.** FAX: 901-448-7091; e-mail: [cmansbach@utmem1.utmem.edu](mailto:cmansbach@utmem1.utmem.edu). The University of Tennessee, Memphis is an Equal Opportunity/Affirmative Action/Title IV/Title IX/Section 504/ADA/ADEA Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS.** The Department of Biosciences has several research position openings for training in plant and viral molecular biology and gene therapy to study:

(1) The replication of negative nonsegmented single-stranded RNA viruses of animals with **Dr. Patrick K. Lai, e-mail: [lai@salem.wvnet.edu](mailto:lai@salem.wvnet.edu).**

(2) Molecular mechanisms of seed storage protein gene regulation, and seed protein engineering for agriculturally important seed crops, including maize, rice, and buckwheat with **Dr. Takashi Ueda, e-mail: [ueda@salem.wvnet.edu](mailto:ueda@salem.wvnet.edu).**

(3) Developmental gene therapeutics and studies on radiation and activated prodrug mechanisms of cell death using bicistronic and fusion genes with **Dr. J. N. Lapeyre, e-mail: [lapeyre@salem.wvnet.edu](mailto:lapeyre@salem.wvnet.edu).**

Please send curriculum vitae with brief statement of research background and interest with names of three references directed to the appropriate researcher at: **Department of Biosciences, Salem-Teikyo University, P.O. Box 500, Salem, WV 26426.** FAX: 304-782-5579. Equal Opportunity Employer/Affirmative Action.

**POSTDOCTORATE RESEARCHER** positions (two) available to work on projects involving stable isotope/mass spectrometric techniques for studying *in vivo* metabolism in AIDS patients. Duties include biochemical preparative methods, mass spectrometric analyses, organization of clinical studies or sample collection, supervision of graduate students and technicians, writing manuscripts. Projects include T-cell kinetics, muscle protein turnover, lipogenesis. Skills and experience with clinical studies, isotope kinetic methods, mass spectrometry, and AIDS research helpful. Qualifications required: Ph.D., M.D., or equivalent. Experience in metabolic research and stable isotopes/mass spectrometry. Training and interest in areas of *in vivo* metabolism. AIDS research, and stable isotope kinetic methods. Application deadline: April 27, 1998. Send curriculum vitae and names of three references to: **M. Hellerstein, Department of Nutrition Sciences, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104.** The University of California is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** to study genetics of complex traits in the mouse. One project concerns the QTL analysis of genes involved in complex behavior (see: **Caldarone et al., Nature Genetics 17:335, 1997**). The second project concerns the positional cloning of a mouse gene causing polycystic kidney disease. Federally funded salary (through Health Research, Inc.). Send curriculum vitae and names of three references to:

**Dr. Lorraine Flaherty, Director**  
Molecular Genetics Program, Wadsworth Center  
P.O. Box 22002  
Albany, NY 12201-2002  
E-mail: [flaherty@wadsworth.org](mailto:flaherty@wadsworth.org)  
*Affirmative Action/Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** for the study of basic defects of fluid transport in cystic fibrosis is currently available for applicants with training and experience in electrophysiology and cell biology. Highly motivated candidates seeking to develop a knowledge of microtechniques and to apply basic science approaches to a medical problem should apply with cover letter and curriculum vitae to: **Paul M. Quinton, Ph.D., c/o Ms. Heejin Byun, Department of Pediatrics, University of California at San Diego School of Medicine, 9500 Gilman Drive, Mail Code 0831, La Jolla, CA 92093-0831.** E-mail: [pquinton@ucsd.edu](mailto:pquinton@ucsd.edu).

**POSTDOCTORAL POSITION.** Gene regulation-immune system. Position to study the regulation of the human CD8a and b genes during lymphoid development. Includes studies with transgenic animals. Experience in genetics, immunology, or molecular biology desirable. Send curriculum vitae and names of three references to: **Dr. Paula Kavathas, Ph.D., Department of Laboratory Medicine and Section of Immunobiology, Yale University, 333 Cedar Street, P.O. Box 208035, New Haven, CT 06520-8035.** FAX: 203-688-4111.

**POSTDOCTORAL POSITION** available immediately to study the role played by the ubiquitin/ATP-dependent pathway in neurodegeneration. A strong background in molecular biology is required. Please send curriculum vitae and name and telephone of three references to: **Dr. Maria Figueiredo-Pereira, Hunter College, Department of Biological Sciences, 695 Park Avenue, New York, NY 10021.** FAX: 212-772-5227. Equal Opportunity Employer.

## POSITIONS OPEN

Mayo Clinic **POSTDOCTORAL RESEARCH FELLOWSHIPS** in endocrinology. The Endocrine Research Unit, Mayo Clinic, has openings in an NIH-funded postgraduate training program for qualified M.D. and Ph.D. candidates. Fourteen NIH-supported faculty are involved in clinical and basic studies of: (i) diabetes/metabolism (M. Jensen, R. Rizza, F. Schwenk, T. O'Brien, and S. Nair); (ii) bone/calcium metabolism (L. Fitzpatrick, R. Turner, S. Khosla, and L. Riggs); (iii) growth factors (C. Conover); (iv) thyroid stimulating hormone and thyroid iodide symporter (J. Morris); (v) Grave's ophthalmopathy (R. Bahn), and (vi) control of gene expression (N. Eberhardt and D. Tindall). The programs provide excellent training experiences in well-equipped laboratories investigating molecular, cellular, and organ-level endocrinology. NIH stipends are supplemented according to standard Mayo policy. Appointments are made for a minimum two-year period with maximum support up to three years. *Candidates must be U.S. citizens or have resident alien status.* Additional information available at website: <http://www.mayo.edu/endo/endocrine.html>. Interested individuals contact: Norman L. Eberhardt, Ph.D., Alfred 4-407, Mayo Clinic, Rochester, MN 55905. Telephone: 507-255-6554; FAX: 507-255-4828; e-mail: [eberhardt@mayo.edu](mailto:eberhardt@mayo.edu). Mayo Foundation is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study the role of c-kit (receptor for stem cell factor) in the regulation of mast cell function and in the pathogenesis of systemic mast cell disorders (*PNAS* 92: 10560, 1995). Studies include structure-function relationships determining interactions between c-kit and signaling proteins, and the role of c-kit in inflammatory and immune processes. Experience in cellular and molecular biology is required. Some familiarity with transgenic/knockout technology is desirable. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to:

Dr. Dean Metcalfe  
Laboratory of Allergic Diseases  
NIAID, NIH  
Building 10, Room 11C205  
10 Center Drive MSC 1881  
Bethesda, MD 20892-1881  
E-mail: [dean\\_metcalfe@nih.gov](mailto:dean_metcalfe@nih.gov)

NIH is an Equal Opportunity Employer.

## TWO POSTDOCTORAL POSITIONS M.D. OR Ph.D. HARVARD MEDICAL SCHOOL Hematology-Oncology Division

A candidate is sought to explore the molecular mechanisms through which membrane phospholipid asymmetry is altered during cell maturation and in response to agonists. A working knowledge of biochemistry, physical biochemistry, or cell biology is required.

A second candidate is sought to explore the structural basis of the interaction of blood coagulation Factor VIII with membrane phospholipids. Prior experience with multidimensional NMR is preferable. Send curriculum vitae and three letters of recommendation to: Gary Gilbert, M.D., West Roxbury VA Medical Center, 1400 VWF Parkway, West Roxbury, MA 02132.

**POSTDOCTORAL RESEARCH ASSOCIATE** position available to study polymorphisms in human quinone reductases, protein structure-function relationships, protein subunit interactions, and posttranslational modifications of wild type and mutant proteins. Applicants must have experience in protein biochemistry and in cell and molecular biology. Submit curriculum vitae and contact information for three references to: Dr. David Ross, School of Pharmacy, C-238, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: [david.ross@uchsc.edu](mailto:david.ross@uchsc.edu). The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

## POSTDOCTORAL POSITION

An immediate opening exists for a Postdoctoral Fellow to study oncogenic signal transduction focusing on the role of the JAK/STAT pathway in growth factor/cytokine signaling and related malignancies.

Send cover letter, résumé including the names of three references, and statement of research interests to: Dr. William LaRochelle, Ph.D., Principal Investigator, National Cancer Institute, Building 37, Room 1E24, Bethesda, MD 20892.

NCI is an Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITION SECTION OF PEDIATRIC NEPHROLOGY Children's Hospital

A NIH-funded Postdoctoral position is available to study molecular mechanisms of somatostatin signaling in kidney cells. A background in molecular and cellular biology required. Send curriculum vitae and names of three references to: Martin A. Turman, M.D., Ph.D., Section of Pediatric Nephrology, The Ohio State University, Children's Hospital, 700 Children's Drive, Columbus, OH 43205. FAX: 614-722-6482; e-mail: [mturman@chi.osu.edu](mailto:mturman@chi.osu.edu); website: [www.childrenshospital.columbus.oh.us](http://www.childrenshospital.columbus.oh.us). Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL FELLOW ANTISOCIAL DRUG DEPENDENCE: GENETICS AND TREATMENT

Studies of the behavioral genetics of clinical psychiatric disorders require interdisciplinary teams of Molecular Geneticists, Behavioral Geneticists, and Clinical Researchers. The Institute for Behavioral Genetics, the Addiction Research and Treatment Service, and the Department of Molecular, Cellular, and Developmental Biology of the University of Colorado (Boulder and Denver campuses) are collaborating in twin and adoption studies, and QTL sib analyses of clinical populations aimed at defining genetic mechanisms and gene loci contributing to the clinical conditions of conduct disorder, antisocial personality disorder, and substance dependence. Positions are open for Postdoctoral Fellows in psychiatry, psychology, behavioral genetics, and molecular genetics. Senior faculty include T. J. Crowley (psychiatry); J. C. DeFries, D. W. Fulker, J. K. Hewitt, R. P. Corley, M. C. Stallings (behavioral genetics); R. E. Booth (social psychology); and K. S. Krauter (molecular genetics). Interested U.S. citizens and permanent residents should send a letter of interest, including career goals, curriculum vitae, and three references by April 15, 1998, to: Thomas J. Crowley, M.D., Department of Psychiatry, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Box C268-35, Denver, CO 80262. The University of Colorado is an Equal Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITION** available immediately to study chromosome movement and the role of specialized proteins in centromere/kinetochore structure and function. This project uses biochemistry, genetics, and cell and molecular biology to study the targeting and function of centromere protein-DNA complexes at the molecular level. Current work focuses on understanding how the yeast homolog of a human centromere protein, CENP-A, finds and assembles centromeric chromatin (*Genes & Devel.* 9:573, 1995). Salary commensurate with experience. Review of applications will begin April 20, 1998, and continue until a suitable candidate is identified. Send curriculum vitae and three letters of recommendation to: Dr. Molly Fitzgerald-Hayes, Department of Biochemistry and Molecular Biology, University of Massachusetts, Amherst, MA 01003. E-mail: [mollyfh@biochem.umass.edu](mailto:mollyfh@biochem.umass.edu). An Affirmative Action/Equal Opportunity Employer.

## POSTDOCTORAL POSITIONS

Postdoctoral positions are available for Ph.D. to investigate the role of nuclear proteins in neuronal differentiation; tyrosine kinases, tyrosine phosphatases in brain endothelial cells, and/or astrocytes; and generation of transgenic and/or knockout mice with a multilevel analysis of gene expression. The candidate should be self-motivated with strong background in molecular and cell signaling. FAX or mail curriculum vitae and three letters of reference to: Dr. Shalom Avraham, Beth Israel Deaconess Medical Center, Harvard Institutes of Medicine, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-975-5240.

**POSTDOCTORAL POSITION** in organic chemistry or biochemistry to study chemical and metal carcinogenesis. Synthesis of carcinogen-nucleic acid adducts will be carried out, as well as the analysis of carcinogen-DNA adducts generated both *in vitro* and in tissue culture systems. Experience in tissue culture desirable. Send curriculum vitae and three letters of recommendation to: Thomas Meehan, Department of Biopharmaceutical Sciences and Division of Toxicology, Box 0446, University of California, San Francisco, CA 94143.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** available to study the structure/function relationship of GTP cyclohydrolase I and its feedback regulatory protein. Ph.D. in biochemistry is essential, preferably with experience in protein chemistry. Send curriculum vitae and list of three references to: Kazuyuki Hatakeyama, M.D., Ph.D., University of Pittsburgh School of Medicine, 300 Kaufman Building, 3471 Fifth Avenue, Pittsburgh, PA 15213. FAX: 412-692-2520; e-mail: [hatakeya+@pitt.edu](mailto:hatakeya+@pitt.edu). An Equal Opportunity/Affirmative Action Employer.

## GRANTS

### FUNDS FOR STUDY OF RARE DISEASES

The Blowitz-Ridgeway Foundation's Rare Disease Clinical Research Grant Program of the National Organization for Rare Disorders, Inc. (NORD) announces the availability of funds for clinical research grants in the area of rare disorders. Grants not to exceed \$50,000 per year, or \$100,000 for two years, will be awarded. A one-page letter of intent, curriculum vitae, and brief budget outline due by May 1, 1998, to: Vice President of Patient Services, National Organization for Rare Disorders, Inc., P.O. Box 8923, New Fairfield, CT 06812. Telephone: 203-746-6518; FAX: 203-746-8728.

## EUROPEAN OPPORTUNITIES

### ETH ZÜRICH SENIOR TECHNICIAN

The position is available immediately for a well-experienced Senior Technician to work on our research in the protein-mediated uptake of lipids at the brush-border membrane of the small intestine. The aim of the project is to characterize proteins known to be involved in this process and to isolate and clone other such proteins.

Requirements: minimum of Master's degree in biochemistry, molecular biology, or related areas. You must have experience in protein and lipid chemistry. Experience in molecular biology is beneficial.

The position is available for five years with a possibility of extension. Salary is negotiable, in the range of \$40,000 to \$50,000 per annum. Interested individuals should send their complete curriculum vitae including research experience and three letters of reference to: Prof. Dr. H. Hauser, Department of Biochemistry, Swiss Federal Institute of Technology, Zürich CH-8092 Switzerland.

## COMPUTER MARKETPLACE

### UnGraph for Windows

Recovers data from graphs, charts, drawings etc. Scan them and UnGraph can automatically or manually follow lines and give you their X,Y coordinates with high precision. Also has single-point mode for scatter plots, etc. \$399 DEMO: call 314-524-8029; email: [info@biosoft.com](mailto:info@biosoft.com)  
In Europe: call +44 (0)1223 368622

Circle No. 42 on Readers' Service Card

### Computer Slide Imaging

\$2/slide

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

Circle No. 35 on Readers' Service Card

## MARKETPLACE

### CUSTOM MONOCLONAL ANTIBODIES




- FINEST HYBRIDOMA SERVICE  
- BEST PRICES  
**AUSTRAL BIOLOGICALS**  
1-800-433-7105

Circle No. 17 on Readers' Service Card



MARKETPLACE

 **MORE PRODUCTS  
ON PREVIOUS PAGE**


**CUSTOM ANTIBODIES  
TO PEPTIDES AND PROTEINS**

- Purification • Conjugation
- ELISA Titration

**1-800-481-9737**

**HTI** e-mail: antibodies@htbio.com  
HTI Bio-Products, Inc. http://www.htbio.com  
ph: (760) 788-9691  
fax: (760) 788-9694

Circle No. 8 on Readers' Service Card

**Multipin™ Peptide  
Synthesis Kits** 

Synthesize from one to hundreds of peptides simultaneously. Make your own libraries!  
Wide range of options available. Please call for details:  
Web: [www.chirontechnologies.com](http://www.chirontechnologies.com)

**CHIRON TECHNOLOGIES**  
US: East Coast Tel: 800 633 8161 Fax: 800 424 3970  
US: West Coast Tel: 800 644 1866 Fax: 800 655 1866  
International Tel: +61 3 9565 1111 Fax: +61 3 9565 1199  
Europe Tel: +33 141 38 9400 Fax: +33 141 38 9409

Circle No. 32 on Readers' Service Card

**DNA SEQUENCING**

**Longest reads available  
Up to 1000 bp/read**  
Only \$50 per read  
MacConnell Research 800-466-7949

Circle No. 31 on Readers' Service Card

**ATTENTION:  
OXIDATIVE STRESS RESEARCHERS**

**New Catalog Now Available**

Comprehensive menu  
of innovative technologies  
for oxidative stress research

**OVER 120 NEW PRODUCTS AVAILABLE**

- Assays for Markers of Oxidative Stress
- Comprehensive Menu for Nitric Oxide Research
- Specialized Chemicals for Oxidative Stress Research
- Wide Range of Anti-Oxidants
- Specialized Antibodies
- Specialized Enzymes
- Unique Spin Traps

**OXIS International, Inc.**  
e-mail: info@oxis.com  
voice: USA 1-800-547-3686  
... and much more home page: <http://www.oxis.com>

Circle No. 34 on Readers' Service Card

**Vapor Pressure  
Osmometer**

The preferred method of  
measuring the osmolality  
of any biological fluid.


**WESCOR, INC. 1-800 453-2725**

Circle No. 20 on Readers' Service Card

MARKETPLACE

**DNA Primers from \$0.85/base**

Ready to Use  
No Setup Charge  
No Hidden Costs



Institutional  
Discounts  
Available

**The Great American Gene Company**  
<http://www.geneco.com>  
email: [geneco@ix.netcom.com](mailto:geneco@ix.netcom.com) fax: (800) 816-5517

Circle No. 4 on Readers' Service Card

**Custom Peptides  
& Antibodies**

**Best Service & Price! Compare and Save!**

**Alpha Diagnostic (800) 786-5777**  
Fax (210) 561-9544; [info@4adi.com](mailto:info@4adi.com)  
Web site: <http://www.4adi.com>

Circle No. 10 on Readers' Service Card

**XX IDT®**  
INTEGRATED DNA TECHNOLOGIES, INC.

**Custom DNA  
Synthesis  
95¢/Base**

- 100 nmole Scale
- No Set-up Fee
- Deprotected and Purified
- 24 Hour Shipping

Ask About Our  
Group Discount Programs!

E-mail: [orders@idtdna.com](mailto:orders@idtdna.com)  
Website: [www.idtdna.com](http://www.idtdna.com)  
Fax: 1-319-626-8444  
Phone: 1-800-328-2661

Circle No. 2 on Readers' Service Card

**CUSTOM DNA SYNTHESIS**

PURE & SIMPLE

- Superb Technical Support
- Impeccable Quality
- World's Fastest Service
- Cap Gel & TOF Mass Spec

\* Some restrictions apply. Please call for details.

**\$1.19\*** per base  
\$10 setup  
50 nmole scale

**MIDLAND**  
STILL THE UNDISPUTED #1 CUSTOM DNA SYNTHESIS SERVICE

THE MIDLAND CERTIFIED REAGENT COMPANY  
Phone 1-800-247-8766 FAX 915-694-2387  
email [mcrc@oligos.com](mailto:mcrc@oligos.com)

Circle No. 5 on Readers' Service Card

**ATLANTIC ANTIBODIES**

Custom Immunization Service

- Custom Polyclonal Antiserum
- Normal Serum
- Quality Control Testing
- Research Support Services




**TEL 207-856-6151 FAX 207-856-6751**

Circle No. 14 on Readers' Service Card

MARKETPLACE

**Easy Web Order**



[www.biosyn.com](http://www.biosyn.com)  
[biosyn@biosyn.com](mailto:biosyn@biosyn.com)

**PRIMERS**  
CUSTOM NO SET UP FEE  
AS LOW AS **65¢/base**  
50 nmole  
Full QC  
Purified by G.F.  
Guaranteed Quality  
Order 400 bases or  
more at the same time

**PEPTIDES**  
CUSTOM NO SET UP FEE  
AS LOW AS **15.00/residue**  
Free Mass Spec  
10-20 mgs  
8-15 residues  
Shipped in 5-10 days

**ANTIPEPTIDE ANTIBODIES  
& MORE**

**BIO•SYNTHESIS  
INCORPORATED**  
Tel: 800-227-0627 Fax: 972-420-0442


Circle No. 6 on Readers' Service Card

**Smart Move!**

Check around, you'll find CBI is the most  
comprehensive biotech service company  
in the market today. We provide:

- Protein Sequencing (N- & C- Terminal)
- Automated DNA Sequencing
- DNA/RNA/PNA Synthesis
- Peptide Synthesis
- Amino Acid Analysis
- Calorimetry
- Mass Spectroscopy

Call CBI for special projects,  
pricing: **1-800-735-9224**



**Commonwealth  
Biotechnologies, Inc.**  
fax: 804-648-2641 [cbi@i2020.net](mailto:cbi@i2020.net) [www.cbi-biotech.com](http://www.cbi-biotech.com)

Circle No. 3 on Readers' Service Card

**Custom  
Gene Construction**

as low as \$5/bp

**1-800-654-4671**  
[info@ana-gen.com](mailto:info@ana-gen.com)

**ANA-GEN**  
Ana-Gen Technologies, Inc.

Circle No. 9 on Readers' Service Card

**Custom Sequencing**

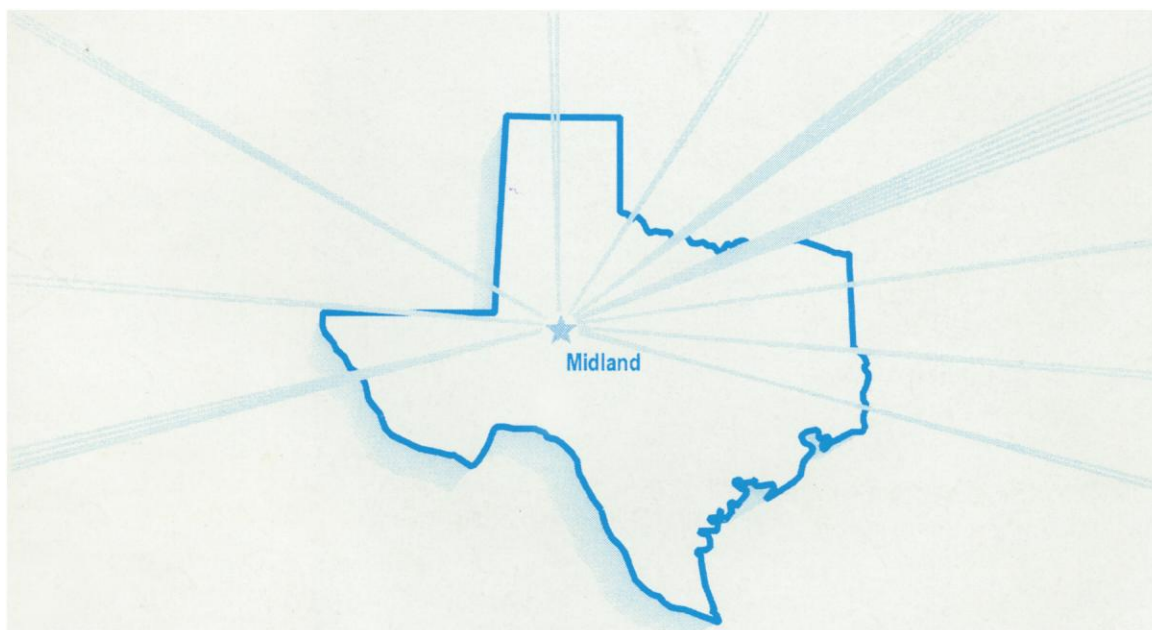
**SEQEXPRESS - \$40/run**  
<http://www.resgen.com>

**Research Genetics, Inc.**  
**1-800-533-4363**

Circle No. 1 on Readers' Service Card

*“When the DNA matters,  
I buy it from Midland.”*

This statement is a direct quote from one of our customers in response to a customer survey that revealed a greater than 99% rate of overall satisfaction with the DNA synthesis services rendered by The Midland Certified Reagent Company. Midland is the only DNA synthesis company that routinely does MALDI Time-of-Flight mass spectrometry to verify the molecular weight of every oligo made.



The Midland Certified Reagent Company is centrally located at 3112-A West Cuthbert Avenue, Midland, Texas, 79701. We welcome your technical and pricing inquiries at 800-247-8766. Contact us by FAX at 915-694-2387. Our e-mail address is [info@oligos.com](mailto:info@oligos.com) and our complete catalog is online at <http://www.mcrc.com>.



Kodak Digital Science™ EDAS 120



# See more. Spend less.

*Discover the advantage of  
1.2 million pixels with the  
Kodak Digital Science  
Electrophoresis Documentation  
and Analysis System 120  
(EDAS 120).*

## **THREE TIMES THE RESOLUTION**

Eliminate the cost of instant film without sacrificing resolution with the EDAS 120. Competitive digital systems at three times the cost can't match its performance. With megapixel resolution and photo-quality printing, the EDAS 120 delivers images three times sharper than video CCD-based gel documentation systems.

## **MORE POWERFUL IMAGE ANALYSIS**

Rapidly and accurately generate mass, molecular weight, and intensity data with the system's updated *Kodak Digital Science* 1D Image Analysis Software. Its Gaussian band fitting algorithm significantly improves data accuracy, and new automated lane finding and non-destructive annotation functions make workflow fast and easy.

## **POINT-AND-SHOOT SIMPLICITY**

Operate the system like a film camera, but capture files instead of frames using the *Kodak Digital Science* DC120 Zoom Digital Camera. You'll view, analyze, manipulate, share, and store images on your Mac or PC—quicker and easier than ever before. And with optional accessory kits for photomicrography and general scientific photography, your lab can have the ultimate in imaging flexibility and performance.

*Visit our web site at  
[www.kodak.com/go/scientific](http://www.kodak.com/go/scientific)  
for sample images, demo  
software, and ordering  
information. Or call us at  
1-800-225-5352  
(or 1-716-722-5813).*

Circle No. 26 on Readers' Service Card

**Kodak** *ds*  
digital science™