

Announcing the new  
**GenePix™ 4000B**  
array scanner

# See more clearly.

The GenePix revolution continues with the most advanced features yet available for array analysis.

**More resolution** Choose scan resolutions from 5 to 100  $\mu\text{m}$  for different sized features.

**More flexibility** Adjust the focal plane for alternative sample types such as thick samples, slides with a coverslip or membrane arrays.

**More accuracy** Laser power is dynamically monitored during scanning for constant signal output.

**More range** Adjust the laser power to optimize signal detection for a wide variety of sample types.

**More control** Control multiple GenePix scanners from a single computer for experiments requiring three or more colors.

**More choices** Choose from a full palette of laser wavelengths when placing your 4000B order: 409, 473, 532\*, 594, 635\*, 670, and 690 nm. \*Standard

**More applications** Scan protein arrays, tissue arrays, cell arrays, and more!

**Find out more.** To get more details and a list of international distributors, call +1-650-571-9400 or visit our web site at [www.axon.com](http://www.axon.com).

## More powerful analysis tools

The latest GenePix Pro software includes new and improved scripts for instrument validation, quality control and powerful data analysis.

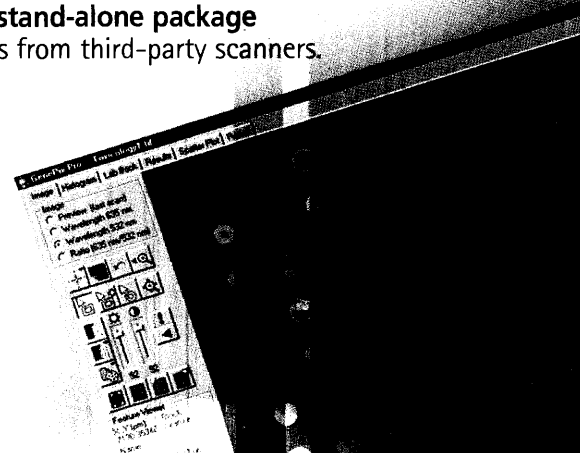
**Also available as a stand-alone package** for analysis of images from third-party scanners.



GenePix is a trademark of Axon Instruments, Inc. © 2001, Axon Instruments, Inc.



Circle No. 52 on Readers' Service Card



# NEW PRODUCTS

## ICM-Pro MolSoft LLC

La Jolla, CA  
Please contact company for  
pricing  
858-625-2000  
www.molsoft.com

## MODELING SUITE

ICM-Pro is a molecular modeling package for Windows (95 or NT) and Unix (IRIX, DEC, or Linux). The core component of the software is an efficient and general global optimization method used for macromolecular docking and refinement, homology modeling, and loop simulations. The method is based on the internal coordinate mechanics (ICM) method developed by Ruben Abagyan for biomolecular complexes. Most of the algorithms in the current version of ICM were co-developed by Abagyan and Maxim Totrov.

The package consists of a main module, ICM-Main, and additional modules, ICM-REBEL, ICM-Dock, and ICM-Bioinformatics. The user interface consists of a window that is separated into a viewing area and a command-line prompt. ICM contains a command language that is powerful and complex, but is a little difficult for novice molecular modelers to master.

ICM-Pro has all the standard features of a molecular graphics program. The software can read coordinates in pdb, sdf/mol, mol2, and csd format and can build molecules from sequence. Different types of molecular representations (space-filling atoms, ribbons, ball-and-stick, wire, dot surfaces, and coloring by property, etc.) may be easily combined. Easy-to-use annotation of the generated images is provided, along with animation and movie-making features. ICM's manual docking of molecules is not available in other modeling packages.

The program provides features for performing matrix and vector operations, linear algebra, and solution of linear equations. Numerical integration, differentiation, and minimization of one-dimensional analytical functions can be easily performed using the command language. ICM-Pro can create two-dimensional plots, histograms, scatter plots, and shaded-area plots, which can be saved as PostScript files. Data analysis features include frequency distribution, linear regression or correlation, eigenvalues or eigenvectors, principal component analysis, and clustering.

ICM-Pro's programming environment provides a flexible and intuitive language to work with numbers, strings, logicals, arrays, vectors, and matrices. It facilitates programming in SQL for connection to databases, and it allows users to define macros for complex analyses.

Automated determination of secondary structure from a given sequence can be easily performed in ICM-Pro. Ab initio prediction uses a biased-probability Monte Carlo method. The program will generate Ramachandran plots and save them as PostScript files. Calculation and display of the interatomic distances, angles, torsional properties, surface area, and volume is easily achieved.

ICM-REBEL allows one to calculate the electrostatic free energy (including the solvation free energy) with efficient solution of the Poisson equation using an analytical molecular surface as a dielectric boundary. The protein-protein and ligand-protein docking scripts provided with this module make docking studies simple. The ICM-Bioinformatics module uses very efficient and fast algorithms to do rapid database searches, multiple sequence alignments, and construct evolutionary trees.

In summary, ICM-Pro offers powerful molecular modeling features in a user-friendly environment.

—Satyam Priyadarshy

DaVinci Press, 3640 NW Harrison, Corvallis, OR 97330, USA. E-mail: satyam@priyadarshy.com

## Fujitsu

For more information call  
503-531-3600 or  
**circle 142**  
on the Reader Service Card  
www.cachesoftware.com

## BIOMEDCACHE

BioMedCACHe is software designed for biomedical and medicinal chemists. The package aids researchers in discovering structure-activity relationships, optimizing leads by maximizing activity, and improving the prediction of bioavailability.

The package enables researchers to predict the properties of compounds that have never been made or properties that have never been measured. These predictions enable researchers to select compounds for testing or synthesis that are most likely to be successful. The software also offers users the ability to devise ways to calculate molecular properties and calibrate them to experimental results. BioMedCACHe allows researchers to optimize, dock, and model reactions of molecules with tens of thousands of atoms. It imports and graphically displays PDB (Protein Data Bank) files with full information from the original files retained and accessible. The program's ProjectLeader interface lets researchers automate, store, and analyze predicted properties for whole libraries of compounds. A new protein sequence editor allows researchers to build, align, visualize in three dimensions, edit, mutate, and analyze proteins.

## ChemSW

For more information call  
707-864-0845 or  
**circle 143**  
on the Reader Service Card  
www.chemsw.com

## MOLSUITE 2000

MolSuite 2000 provides molecular modeling with great graphics, physical property calculations, statistical analysis, and database development and management all in one package with several modules.

Model building is easy in ChemSite Pro, which provides fast minimization and display of any molecule, even crystals, in a three-dimensional environment. Structures can be easily copied and pasted to other MolSuite 2000 programs. The user can paste molecules into Molecular Modeling Pro and run semi-empirical quantum mechanics and calculations of up to 70 properties. Molecular Analysis Pro enables the user to use statistical regression techniques in the plotting of chemical data. The user can apply MolSuite to develop and maintain a database or use MolSuite DB, which contains more than 24,000 organic molecules with chemical properties.

## GeneSystems Computer Software

For more information call  
650-368-3535 or  
**circle 144**  
on the Reader Service Card  
www.plasmidartist.com

## PLASMID ARTIST

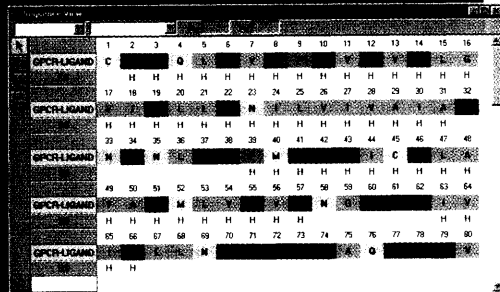
Plasmid ARTIST is the first Macintosh graphic program designed for molecular biologists that creates publication-quality plasmid diagrams (graphical representations of recombinant DNA molecules used in the design and publication of experimental results). It makes use of a simple,

MacDraw-like user interface that allows biologists to easily construct diagrams detailing their recombinant DNA molecule-building strategies and results. Using the mouse and pull-down menus, users can draw linear or circular restriction map diagrams containing a virtually unlimited number of restriction sites and fragments. More than 80 common restriction enzymes are provided in the "Site" menu and others can be added by the user. These can be used to automatically generate restriction site labels for maps created from DNA sequences. Plasmid ARTIST can import DNA sequence data from four common sequence file formats. The program automatically keeps track of the size of the molecule as one "clones" in new gene fragments using

CONTINUED ON PAGE 2283



Agouti-related  
protein docked in  
a homology model  
of a brain GPCR  
(courtesy of Dr. J. V. Smith)



Protein Sequence Editor

# NE THIS.

## Or better yet...

**See it.**

**Analyze it.**

**Align it.**

**Dock it.**

**Understand it.**

### Discover BioMedCACHe™

**Finally, software that lets chemists  
and biologists share discoveries...**

**In One Package – On Your Desktop\***

CACHe lets every chemist visualize molecules in 3D,  
predict conformations, analyze reactivity, predict properties  
– *before making them in the lab.*

► **Drugs to proteins**

– Optimize, dock, and model reactions of molecules with tens of thousands of atoms

► **New Sequence Editor**

– Build, align, edit, mutate, and analyze proteins

► **Model enzyme mechanisms**

– pKa's, atom charges, binding energies, enzyme kinetics, and more from  
new quantum chemistry tools

► **Predict any property**

– Integrated QSAR and QSPR for ADME, LogP, water solubility, Rule-of-5, and more

► **Virtual libraries of compounds**

– Automate, store, and analyze predicted properties for whole libraries

► **See it all in 3D stereo**

– Stereoscopic high-resolution display option

\*Windows 95, 98, ME, NT 4.0, and 2000

**Visit our website TODAY: [www.CACHeSoftware.com/BioMedCACHe](http://www.CACHeSoftware.com/BioMedCACHe)**

**Americas**

CACHe Group, Fujitsu  
Tel: (1) 503 746 3600  
Email: [sales@CACHeSoftware.com](mailto:sales@CACHeSoftware.com)  
Web: [www.CACHeSoftware.com](http://www.CACHeSoftware.com)

**Europe**

FQS Poland  
Tel: (4812) 429 43 45  
Email: [ccs@fqspl.com.pl](mailto:ccs@fqspl.com.pl)  
Web: [www.CACHeSoftware.com](http://www.CACHeSoftware.com)

**Asia**

Fujitsu Ltd  
Tel: (81) 43-299-3019  
Email: [cache@ssd.se.fujitsu.co.jp](mailto:cache@ssd.se.fujitsu.co.jp)  
Web: [www.CACHeSoftware.com](http://www.CACHeSoftware.com)



Circle No. 10 on Readers' Service Card

CACHe Group is a business within Fujitsu Business Systems of America, Inc. CACHe and BioMedCACHe are trademarks or registered trademarks of Fujitsu, Inc. All other brands and product names are trademarks of their respective holders. Copyright © 2001 Fujitsu



**CACHe®**

mouse-activated tools. It can also export the image as a PICT or encapsulated PostScript file so that diagrams can be pasted into page layout programs for the preparation of reports and manuscripts.

#### New River Kinematics

For more information call  
540-994-9320 or  
**circle 145**  
on the Reader Service Card  
[www.kinematics.com/molucad](http://www.kinematics.com/molucad)

#### MOLUCAD

MolucAD is a full-featured molecular modeling and visualization tool designed for personal computing platforms. The latest version incorporates many advanced features found only in expensive workstation-based modeling packages.

Ease of use, graphical quality, and computational robustness are the program's trademarks. Even novice users can quickly generate models, view them from any perspective, create reaction animations, and save all data to disk.

#### MDL Information Systems

For more information call  
510-895-1313 or  
**circle 146**  
on the Reader Service Card  
[www.mdli.com](http://www.mdli.com)

#### ISIS/DIRECT MOLECULES 2.0

Packaged as a chemical data cartridge that resides within Oracle, ISIS/Direct Molecule 2.0 enables scientists to register, store, and search molecular data and structures, and integrate other Oracle-based enterprise data and structures. Providing a full-registration Oracle interface

to MDL's chemical database technology is a major step in the evolution of MDL's ISIS (Integrated Scientific Information System). The program stores chemical structure data using a new version of the manufacturer's Relational Chemical Gateway (RCG) format available with the newly released ISIS/Host 4.0. Bidirectional registration inter-

operability between ISIS/Host 4.0 and ISIS/Direct Molecules 2.0 allows both products to read and write structures using the Binary Large Object data types necessary to support foreign data objects (such as molecular structure) in Oracle. In addition, structures written by one product are immediately visible to the other, without any duplication of data, which means that current ISIS customers can continue using their existing ISIS/Host registration systems.

#### SoftShell/Bio-Rad Laboratories

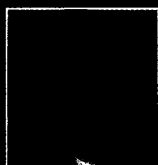
For more information call  
888-524-6723 or  
**circle 147**  
on the Reader Service Card  
[www.softshell.com](http://www.softshell.com)

#### CHEMWINDOW 6

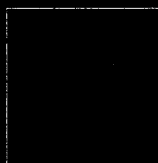
ChemWindow 6 is comprehensive chemistry publishing software for Windows 95, 98, or NT. It is designed for the chemist who needs to publish professional reports, complete with two-dimensional and three-dimensional chemical structures, chemical reactions, lab experiment setups, chemical engineering diagrams, data tables, and more. With ChemWindow 6, you can draw virtually any chemical structure with just a few clicks and drags. It has all the tools you need to draw rings, bonds, atoms, chains, arrows, and chemical symbols. With libraries of 4500 pre-drawn organic and pharmacological structures, an extensive collection of glassware pieces, and a series of chemical engineering symbols, you can clearly illustrate experiment setups simply by making selections from the libraries and placing them where you want in your presentation layout. A new Annotation Tool can be used to create links between ChemWindow objects like structures, formulas, captions, tables, and graphics to present clear graphical comments for key elements of you experiments. A Table Tool helps the user quickly

CONTINUED ON PAGE 2284

## KEYNOTE PRESENTERS



Putting the Human Genome to Work  
Eric S. Lander,  
Whitehead Institute/  
MIT Center  
for Genome Research



Personalized Medicine  
Mark J. Levin,  
Millennium  
Pharmaceuticals



Drug Discovery  
Realizing the Potential  
George M. Milne, Jr.,  
Pfizer, Inc.

# DRUG DISCOVERY TECHNOLOGY

## FREE Online Access to Keynote Speaker Presentations!

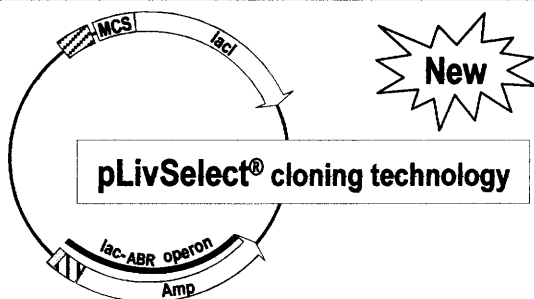
The audio, video and powerpoint slides of the 3 keynote presenters from Drug Discovery Technology 2001 will be available on-line at [www.drugdisc.com](http://www.drugdisc.com) starting September 1.

Sponsored by: **Science**  
[www.scienceonline.org](http://www.scienceonline.org)



# [www.drugdisc.com](http://www.drugdisc.com)





## pLivSelect® cloning technology

### A revolution in DNA cloning

- ★ Direct selection without need of blue/white
- ★ 100% accuracy with zero background
- ★ High efficiency with low cost
- ★ Easy to use and very fast

**The best choice for PCR cloning, genomic DNA/cDNA cloning, and shotgun cloning sequencing**

**pLivSelect®-PCR Cloning Kits  
pLivSelect®-I Cloning Kits  
are now available at prompt prices**



5020 Fairway St. Suite 220  
Montreal, QC Canada, H8T 1B8  
Tel: 1-514-633-6006, Fax: 1-514-633-6011  
Tol free: 1-888-368-8368  
email: [info@biost.com](mailto:info@biost.com); Web: [www.biost.com](http://www.biost.com)

- Other products and technical services
- are also available.

Circle No. 11 on Readers' Service Card

#### THE MCKNIGHT ENDOWMENT FUND FOR NEUROSCIENCE

#### 2002 McKNIGHT SCHOLAR AWARDS

The McKnight Endowment Fund for Neuroscience invites applications for the 2002 McKnight Scholar Awards.

Since 1977, the McKnight Scholar Awards have encouraged emerging neuroscientists to focus on disorders of learning and memory. Applicants for the McKnight Scholar Awards must demonstrate interest in solving important problems in relevant areas of neuroscience, including the translation of basic research to clinical neuroscience. Awards are given to exceptional young scientists who hold the M.D. and/or Ph.D. degree and who are in the early stages of establishing an independent laboratory and research career. Traditionally, successful candidates have held faculty positions for at least one year. For the names of previous recipients and their projects, see [www.mcknight.org/neuroscience/Awardees-Sch.htm](http://www.mcknight.org/neuroscience/Awardees-Sch.htm).

Up to six McKnight Scholars each will receive three years of support, beginning July 1, 2002.

##### Eligibility. Applicants must have the following:

- M.D. and/or Ph.D. degree; formal postdoctoral training completed.
- A record of meritorious research in areas pertinent to the interests of the Endowment Fund.
- Not more than four years of experience in an independent faculty position.
- Evidence of a commitment to a career in neuroscience.
- U.S. citizenship or lawful permanent resident status.
- U.S.-based sponsoring institution, to which awards will be paid.

##### Applicants may not:

- Be employees of the Howard Hughes Medical Institute or scientists within the intramural program of the National Institutes of Health.
- Apply in more than two rounds of competition.
- Apply for continued postdoctoral support.
- Hold tenured positions or their equivalent.

**Amount and Purpose of Support.** Each McKnight Scholar will receive \$75,000 annually in 2002, 2003, and 2004. Funds may be used in any way that will facilitate development of the Scholar's research program, but not for indirect costs.

**Selection Process.** A review committee will evaluate applications and recommend candidates to the Board of Directors of the Endowment Fund for final decision. Awards will be announced on or before May 15, 2002.

To request application forms and guidelines, visit our website at [www.mcknight.org/neuroscience](http://www.mcknight.org/neuroscience), or email, call, or write the office of The McKnight Endowment Fund for Neuroscience. Completed applications must arrive no later than **January 2, 2002**.

The McKnight Endowment Fund for Neuroscience  
600 TCF Tower • 121 South Eighth Street  
Minneapolis, Minnesota 55402  
612-333-4220  
[info@mcknight.org](mailto:info@mcknight.org)  
[www.mcknight.org/neuroscience](http://www.mcknight.org/neuroscience)

Circle No. 20 on Readers' Service Card

CONTINUED FROM PAGE 2283

enter and organize data. The program also includes SymApps, a professional three-dimensional molecular rendering program, designed for desktop visualization and publishing. It can convert two-dimensional structure drawings to three dimensions in seconds. SymApps calculates, displays, and animates the symmetry for a molecule.

#### Tripes

For more information call  
800-323-2960 or  
**circle 148**  
on the Reader Service Card  
[www.tripes.com](http://www.tripes.com)

#### ALCHEMY 2000

Alchemy 2000 is a chemical discovery system for the personal computer with advanced molecular graphic displays, accurate energy calculations, and customizable tools that allow you to tailor the program for your research team. Alchemy 2000 delivers high-performance visualization with all types of chemical structures, including proteins, polymers, and small molecules. It can convert the user's two-dimensional drawings into accurate three-dimensional representations. Local databasing, graphing, batch mode, and spreadsheet capabilities provide a means for expanded analysis and investigation of all families of chemical compounds. It includes application modules for specific research needs, including QSAR, Protein, Polymer, LogP, and more.

#### Georgia State University

For more information call  
404-651-2245 or  
**circle 149**  
on the Reader Service Card  
[www.cs.gsu.edu/~cscrw/amm/amm.html](http://www.cs.gsu.edu/~cscrw/amm/amm.html)

#### AMMP

AMMP is a full-featured molecular mechanics, dynamics, and modeling program. It can manipulate both small molecules and macromolecules, including proteins, nucleic acids, and other polymers. In addition to standard features, such as numerically stable molecular dynamics, a fast multipole method for including all atoms in the calculation of long-range potentials, and robust structural optimizers, it has a flexible choice of potentials and a simple yet powerful ability to manipulate molecules and analyze individual energy terms. One major advantage over many other programs is that it is easy to introduce nonstandard polymer linkages, unusual ligands, or nonstandard residues. Adding missing hydrogen atoms and completing partial structures, which are difficult for many programs, are straightforward in AMMP.

#### Washington Univ. School of Medicine

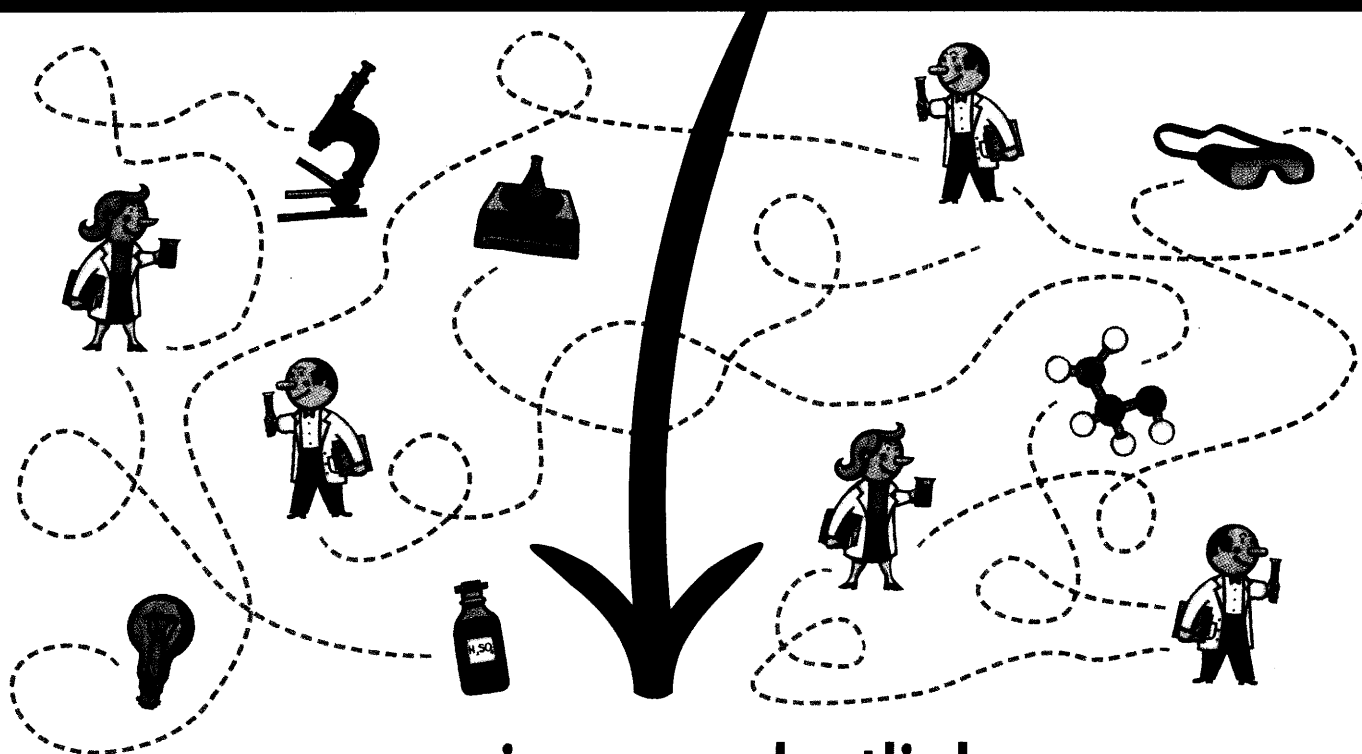
For more information call  
314-362-4195 or  
**circle 150**  
on the Reader Service Card  
[dasher.wustl.edu/tinker](mailto:dasher.wustl.edu/tinker)

#### TINKER

TINKER molecular modeling software is a complete general package for molecular mechanics and dynamics, with some special features for biopolymers. It can use any of several common parameter sets. The TINKER package includes a variety of algorithms such as a new distance geometry metrization method that has greater speed and better sampling than standard methods, Elber's reaction path methods, several potential smoothing and search methods for global optimization, an efficient potential surface scanning procedure, flexible implementation of atomic multipole-based electrostatics with explicit dipole polarizability, a selection of continuum solvation treatments, a simple free energy perturbation facility, normal mode analysis, an improved spherical energy cutoff method, and more. It is available free of charge.

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

# What's the shortest distance between two points?



**[www.scienceproductlink.org](http://www.scienceproductlink.org)**

Find out about products advertised in *Science* — instantly.

*Science* announces a great way to find out about new products advertised or featured in *Science* — instantly. *Science*'s Product Link is a new online reader service program and online product information service that allows readers to search for products advertised or featured in *Science* by

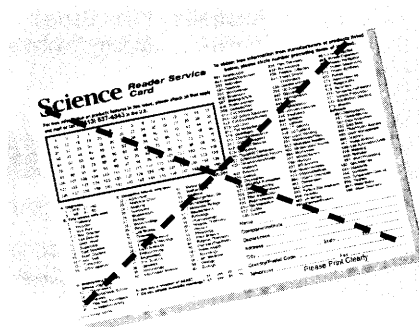
- product category,
- company name,
- keyword, and
- page number.

You can look for product information in current and back issues. You can even link to advertisers' websites for more information.

If you prefer, you can request to have product information delivered via

- e-mail,
- regular mail,
- telephone, and
- fax.

**Science**  
Discover the Future



## **Science Reader Service**

With the publication of the 5 October issue, *Science* is eliminating the print reader service card. Starting with that issue, all product information can be requested online at [www.scienceproductlink.org](http://www.scienceproductlink.org)

## Classified Advertising

For full details on advertising rates, deadlines, mechanical requirements, and editorial calendar go to [www.sciencecareers.org](http://www.sciencecareers.org) and click on How to Advertise

### UNITED STATES

#### Display Classified Advertising

Bren Peters (Mid-Atlantic, Midwest)  
Tel: 202-326-6541

Kathleen Clark (Southeast, Canada)  
Tel: 202-326-6555

Jill Steinberg (Northeast)  
Tel: 212-496-1264

Kristine von Zedlitz (West Coast)  
Tel: 415-956-2531

Fax: 202-289-6742

E-mail: [science\\_displayads@aaas.org](mailto:science_displayads@aaas.org)

#### Line Classified Advertising

Jody Fenty  
Tel: 202-326-6722

Christina Geiger  
Tel: 202-326-6532

Fax: 202-289-1451

E-mail: [science\\_classifieds@aaas.org](mailto:science_classifieds@aaas.org)

#### Online Classified Advertising

Beth Dwyer  
Tel: 202-326-6534

Fax: 202-289-6742

E-mail: [bdwyer@aaas.org](mailto:bdwyer@aaas.org)

[www.sciencecareers.org](http://www.sciencecareers.org)

**Ad Materials:** Send to: *Science* Classified Advertising, 1200 New York Avenue, NW, Room 911, Washington, DC 20005

### EUROPE

#### Display, Line, and Online Classified Advertising

Deborah Cummings  
Tel: +44 (0) 1223 326 500

Fax: +44 (0) 1223 326 532

E-mail: [european\\_ads@science-int.co.uk](mailto:european_ads@science-int.co.uk)

**Ad Materials:** Send to: *Science* International, Advertising Dept., Bateman House, 82-88 Hills Road, Cambridge CB2 1LQ, United Kingdom

### MEETINGS/ANNOUNCEMENTS

Kathleen Clark  
Tel: 202-326-6555

Richard Walters  
Tel: +44 (0) 1223 326 500

To **Subscribe** to *Science* call:  
202-326-6417 or 1-800-731-4939

be considered. Familiarity with one or more physical science, mathematics and computer science highly desirable. Send curriculum vitae to: Search Committee, Attention: Dr. Sha

# HOT CAREERS

## A Science Advertising Supplement

Issue Date ..... **2 November 2001**

Space Reservation Deadline ..... **16 October 2001**

Material Closing Deadline ..... **23 October 2001**

Life scientists at the cutting edge are expected to have some exposure to the physical sciences, mathematics, and computer science. This supplement will explore how life science career opportunities are changing as a result of the impact of these important disciplines.

### ADVERTISER BENEFITS

- **Maximum Exposure to the world's top scientists.** Paid circulation of over 148,000<sup>1</sup>; weekly readership more than 800,000.<sup>2</sup>
- **Free Market Research.** Full-page advertisers in this supplement receive, free of charge, quantitative data and verbatim feedback about their recruitment ad from Harvey Research.
- **Science Careers posting available.** For a nominal fee, your recruitment ad can be placed on our website [sciencecareers.org](http://sciencecareers.org).
- **Resume/CV Database Access.** Find the scientists you need by accessing *Science's* Resume/CV Database! When you run your ad in print you can purchase 1-day access for only \$250.

1. *Science* June 2001 BPA Publisher's Statement.

2. *Science* Harvey Research Readership Surveys: 14 January 2000, 4 February 2000, 4 June 1999, (Japan) as applied to *Science* June 2001 BPA Publisher's Statement, publisher's own data.

### To advertise, contact:

**U.S.** ..... Daryl Anderson ..... (202) 326-6543  
**Europe** ..... Deborah Cummings ... +44 (0) 1223 326 500  
**Australia** .. Keith Sandell ..... +61 29922-2977  
**Japan** ..... Mashy Yoshikawa ..... +81 3 3235-5961

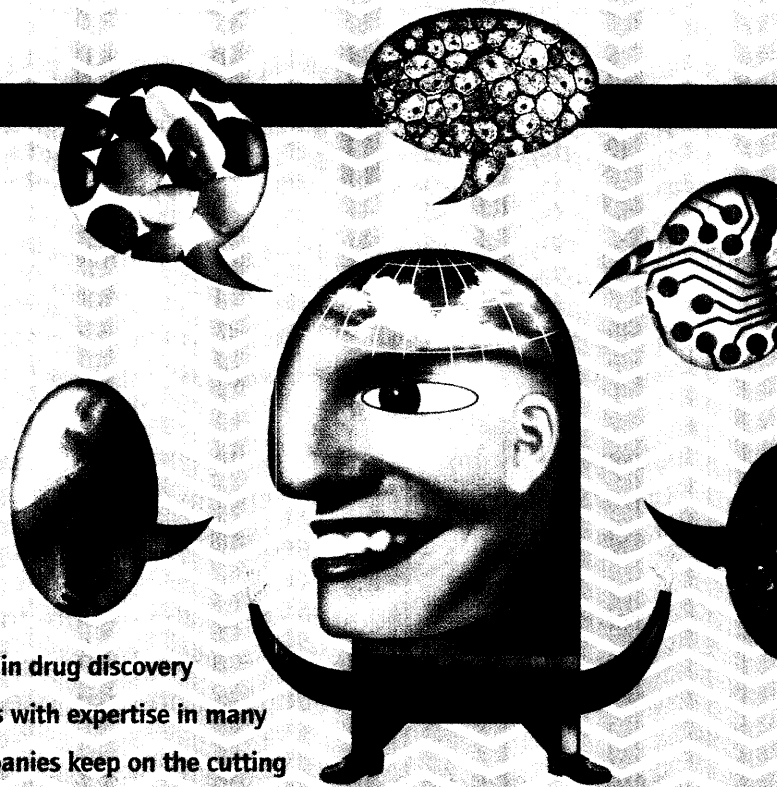
**Science**

[www.sciencecareers.org](http://www.sciencecareers.org)

*Discover the Future*

# VARIETY SPICES UP EAST COAST PHARMAS

With new scientific techniques continually cropping up in drug discovery research, big pharmaceutical companies need scientists with expertise in many fields. This article discusses how three East Coast companies keep on the cutting edge by hiring scientists from a variety of backgrounds. BY MIKE MAY



**P**harmaceutical companies face a world of constantly changing science. Moreover, the changes affect this industry at nearly every level, from research and development to manufacturing. To keep up with changing theory and practice in a broad range of biomedical sciences, large pharmaceutical companies must continually hire experts in new areas.

Before genomics and proteomics, pharmaceutical companies often struggled to find enough potential drug targets, or places to attack when battling a disease. Now, targets seemingly fall from the sky, creating a flood of candidates. One of today's greatest bottlenecks involves target validation, or picking the best targets to strike. To make better predictions about which targets to pursue first, scientists at large pharmaceutical companies are exploring a variety of new tools, including data mining, structure prediction, and protein-protein interactions. So far, many of these tools remain theoretical as far as pharmaceutical companies are concerned, at least in terms of the value of applying them. Nevertheless, these companies are testing as many of these techniques as they can in hopes of improving the speed of the drug discovery process.

As drug discovery evolves, pharmaceutical companies must also change their hiring practices. Moreover, the continued growth of techniques and data should fuel further hiring needs in the pharmaceutical industry. For an inside look, this report will share perspectives from several individuals at large pharmaceutical companies on the East Coast and address how advancing science positively affects the job market for scientists.

**BOSTON, MASSACHUSETTS:** AstraZeneca employs over 50,000 people in more than 100 countries, and it is engaged in the entire continuum of drug delivery: research and development, manufacturing, marketing, and supplying health care services. Worldwide, the company has nine major research sites—three of which also house special Enabling Science and Technology Centers that are dedicated to exploring and providing new technologies and novel approaches to advance drug discovery.

AstraZeneca discovers and delivers pharmaceuticals that meet important medical needs in seven therapeutic areas, including drugs

- AstraZeneca
- Johnson & Johnson
- Wyeth-Ayerst Pharmaceuticals

that address cardiovascular and central nervous system disorders, fight cancer and infection, provide relief from gastrointestinal problems, and control pain. As a result, this company requires experts in a seemingly unlimited array of areas.

Jeff Hanke, Vice President for cancer research at AstraZeneca R&D Boston, said, "One of the latest trends in drug discovery is the integration of bioinformatic and cheminformatic scientists into discovery teams." In fact, AstraZeneca recently created a cancer informatics group. Consequently, Hanke said, "We seek people

with informatics skills, but possessing those skills alone is not enough. It's important that job candidates also have a good understanding of biology and genomics. Expertise in protein structure and modeling is also desirable."

Hanke highlighted other areas where AstraZeneca's research and development organization seeks experts. He said, "We always need people with a strong background in drug discovery, disease biology, biochemistry, enzymology, or chemistry." AstraZeneca also looks for people with experience in lab automa-





# MEDICAL AND BIOLOGICAL RESEARCH AT THE ROCKEFELLER UNIVERSITY

The Rockefeller University has developed a comprehensive strategic plan that calls for recruitment of 15-20 faculty members at both entry and tenured levels over the next four years. Our focus for the forthcoming year includes chemistry, virology, neuroscience, and patient-oriented research.

**Chemical Biology:** One appointment to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in chemistry, with an emphasis on basic research involving synthesis of novel chemical reagents for studies of complex biological systems.

**Virology:** One appointment to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in the area of virology/immunology. The University is particularly interested in scientists working on host-pathogen interactions.

**Neuroscience:** One appointment to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in molecular neurobiology, with the goal of furthering strengthening research at the interface between molecular biology and systems neuroscience.

**Patient-Oriented Research:** One appointment to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in the University's Clinical Research Center, which includes an NIH-funded GCRC. The successful applicant will be expected to develop a molecular program of patient-oriented research in our newly renovated hospital. Areas of interest include cancer biology; cardiovascular, blood, and neurological diseases; human genetics; immunology; and infectious diseases.

Applicants at the Assistant Professor/Head of Laboratory level should submit a Curriculum Vitae (with publication list), a statement of current and future research interests (no longer than three pages), and arrange for five letters of reference to be sent directly to the University.

All materials should **indicate the search for which the application is intended** and be addressed to:

**Office of Academic Affairs  
The Rockefeller University  
1230 York Avenue, Box 55  
New York, NY 10021 USA**

The closing date for applications, including letters of reference, is **November 1, 2001**.

The Rockefeller University is an Affirmative Action/Equal Opportunity Employer. Further information about the research and educational programs of The Rockefeller University can be found on the Internet at <http://www.rockefeller.edu/>.

We're driven by  
**discovery.**



## What drives you?

**Innovate with the scientific vanguard.** Join the innovative team at Schering-Plough Research Institute. With such breakthrough pharmaceuticals as CLARITIN® and INTRON® A, we continue to discover revolutionary medications that extend and enhance the lives of millions. We're also experts in developing successful careers. Working with internationally known scientists and researchers, our collaborative, entrepreneurial environment allows your ideas to grow and be realized. You'll also experience more responsibility and autonomy right from the outset. Give your career the right treatment in the following exceptional opportunities at our **Kenilworth, NJ** location:

### PhD Scientist - Biochemistry/Biophysical Methods

To provide leadership in biophysical analysis of therapeutic targets with emphasis on enzyme inhibitors, you will ideally have experience with biophysical methods such as X-ray crystallography, NMR, fluorescence, circular dichroism, BiaCore, radioligand binding, calorimetry and protein unfolding.

A PhD in Biophysical Chemistry, Biochemistry or related life science discipline and up to 6 years of relevant experience required. A strong background in protein expression, purification and characterization, ligand binding determinations and enzymology is also required.

**Job Code: PAD/SCJ/SRI/1359HS**

### PhD Research Scientist - CNS

You will be responsible for performing and overseeing laboratory research related to identification and characterization of CNS drug targets, including receptors and enzymes. Cell and tissue-based techniques will also be applied to evaluation of potential drug candidates at target proteins.

A PhD in Pharmacology, Neuroscience or related discipline, with at least 3 years of postdoctoral experience are required. Research experience in receptor biology, signal transduction and/or neurochemistry is preferred. A background in cell and molecular biology, primary neuronal cell culture and/or *in vivo* techniques is also desirable. **Job Code: PAD/SCJ/SRI/1765HS**

### MS Research Associate - Immunology

You will be responsible for the characterization of potential therapeutic compounds in receptor binding assays utilizing skills in Pharmacology and Biochemistry, with an emphasis on profiling the *in vitro* and cellular biological activities of drug candidates. You will also support new target identification and project implementation.

An MS in Biochemistry, Pharmacology, Immunology or related field and 1+ years of laboratory experience in receptor characterization and *in vitro* cellular immunology are required. A background in Molecular Biology is a plus.

**Job Code: PAD/SCJ/SRI/1840HS**

### BS/MS Research Associate - Behavioral Pharmacology

Work in our behavioral pharmacology group on cutting-edge discovery research activities in the areas of cognitive neuroscience and behavioral genetics. Assist in the design, execution and data analysis generated by *in vivo* behavioral models that form an integral part of our CNS drug discovery effort.

A BS/MS in Biology or related field is required with 2+ years of experience in behavioral methodologies of small animals. Experience in animal models of learning and memory would be a plus. **Job Code: PAD/SCJ/SRI/2053HS**

We offer an excellent compensation package including competitive salary, profit sharing, and a 401(k) plan. Comprehensive benefits include: group insurance and retirement programs, education assistance, and health and wellness programs.

For more information and to apply online, search jobs at [www.whatdrivesyou.com](http://www.whatdrivesyou.com) or mail your resume, referencing job code, to: Schering-Plough c/o Resume Processing, P.O. Box 549248, Suite 187, Waltham, MA 02454-0248. By responding to this ad, you may be considered for other potential opportunities throughout the Schering-Plough organization. If a potential match exists, you will be notified. An equal opportunity employer.

### PhD Scientist - Virology

Work with multidisciplinary team developing small molecule therapies against key viral targets utilizing virological and biochemical approaches.

A PhD in Virology/Molecular Biology/Biochemistry and 2+ years of postdoctoral and/or industry experience are required. Candidates should have experience with either viral or cell-based assays, assay development, enzyme assay, and be familiar with heterologous gene expression.

**Job Code: PAD/SCJ/SRI/1847HS**

### PhD Scientist - Antimicrobial/Antifungal Drug Discovery

Working in our Infectious Diseases area, your responsibilities will include functional analysis of antimicrobial drug targets, the mechanism of action/resistance studies, and the development of biochemical assays for high-throughput screening and structure/activity relationships. You will have managerial responsibilities commensurate with experience.

A PhD with at least 2+ years of postdoctoral experience in microbial genetics, physiology or biochemistry are required. Prior experience in a pharmaceutical, drug discovery environment is highly desirable.

**Job Code: PAD/SCJ/SRI/1994HS**

### BS/MS Research Associate- Molecular Genetics-Immunology

The Mouse Genetics Group seeks an enthusiastic BS/MS Research Associate to perform sample preparation, cell staining, sample acquisition and analysis. Additional responsibilities include mouse handling and phenotyping, tissue harvesting, magnetic cell separations, cell culture, ELISAs, and molecular techniques such as RT-PCR and real-time PCR.

A BS/MS in Molecular Genetics, Immunology or related field is required with minimum of 2 years of experience in Flow Cytometry. Cell sorting experience is desirable. **Job Code: PAD/SCJ/SRI/2029HS**

### BS/MS Research Associate-Genomics-Immunology

Join the team involved in genomic cloning, design and preparation of targeting vectors and transgenes, and with generation and expression analysis of transgenic mice.

A BS/MS in Molecular Genetics, Immunology or related field is required, with 2+ years of experience in molecular biology/cloning/ES cell manipulation. Excellent communications, organization and computer skills are essential. Quantitative PCR (Taqman) experience is a plus.

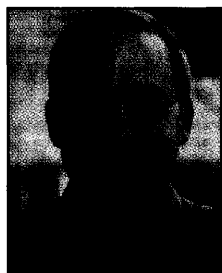
**Job Code: PAD/SCJ/SRI/2030HS**

Search jobs @  
[www.whatdrivesyou.com](http://www.whatdrivesyou.com)



**Schering-Plough  
Research Institute**

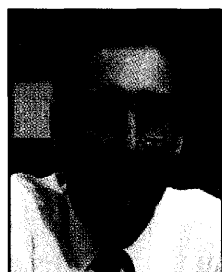
# VARIETY SPICES UP EAST COAST PHARMAS



**JEFF HANKE**

tion and instrumentation. Without exception, Hanke said, "we need people who know how to apply their knowledge to advance projects." In other words, book knowledge alone probably will not be enough to get hired at AstraZeneca. Successful candidates will also need to show real-world experience.

The application of new techniques also pushes AstraZeneca to stretch the boundaries of its searches for employees. Hanke said that in Boston, AstraZeneca is looking at potential job candidates with a diverse range of backgrounds. This company might look at someone with an undergraduate degree in engineering or physics from, say, MIT, who went on to do graduate work in biology or chemistry. Hanke said, "The way that pharmaceutical science is evolving, we will see a new mix of skills and experience in teams that will provide new capabilities to our discovery efforts. This is an exciting time to be doing drug discovery research."



**BOB RUFFOLO**

**ST. DAVIDS, PENNSYLVANIA:** Wyeth-Ayerst, the Pharmaceutical Division of American Home Products, manufactures products for women's health, neurosciences, musculoskeletal disorders, cardiovascular diseases, hemophilia, infectious diseases, and oncology as well as vaccines. Wyeth-Ayerst also runs an extensive research and development operation. For example, Bob Ruffolo, Executive Vice President of Research & Development, said, "We recently established an Experimental Medicine division that intends to use genomic and genetic profiling of patients in order to increase efficiency of clinical development. It is our goal to be able to predict populations of patients who might respond optimally to a specific drug, or alternately, those patients who might be most prone to side effects. This information can then be used to enroll patients into larger clinical trials in order to obtain the desired increase in efficiency, by increasing responder rate and/or eliminating patients with poorer responses, serious side effects, or lower benefit-to-risk ratios."

With growing databases of information and the development of new technologies, Ruffolo said that his company needs people with a wide range of backgrounds. First, he pointed out that the pharmaceutical industry will always need people with experience in the more traditional fields of biomedical research, such as biology, medicinal chemistry, and pharmacology. In fact, Ruffolo said, "I expect that these needs will increase in the future, because the increasing number of new drug targets requires chemists, pharmacologists, and biologists to discover those molecules that we intend to develop into drugs."

Ruffolo also indicated Wyeth-Ayerst's need for people with expertise in newer technologies. In these areas, he mentioned laboratory automation to increase throughput and efficiency, information technology, genomics, and genetics. He added: "We also need experts in cheminformatics, who will be able to link bioinformatics to extensive chemical databases." In these newer disciplines, Ruffolo said, "training of indi-

viduals is lagging behind the need for them, creating a drastic shortage for these relatively rare talents."

According to Ruffolo, finding excellent people proves more difficult today than ever before. Retaining talented staff is also becoming more difficult. He said, "We look at other companies for the best talent, and other companies look at us." With the high demand for people in virtually all fields of biomedical research, Ruffolo said, "those individuals with unique training and qualifications will face even more opportunities than ever before."



**KAREN BUSH**

**NEW BRUNSWICK, NEW JERSEY:** With about 100,000 employees, Johnson & Johnson calls itself the world's most comprehensive and broadly based manufacturer of health care products. This organization—founded in 1886—includes more than 195 companies in 51 countries, including its world headquarters in New Jersey. Throughout many branches of this extensive mother company, Johnson & Johnson applies modern biotechnology to a variety of areas in research and development, including diagnostics, medical devices, and pharmaceuticals.

According to Karen Bush, who is the Drug Discovery biology leader for the Antimicrobial Agents team at the R. W. Johnson Pharmaceutical Research Institute, one of Johnson & Johnson's pharmaceutical research organizations: "With the rapid expansion of our knowledge in the areas of genomics, proteomics, chip technology, and bioinformatics, it is imperative that pharmaceutical scientists be poised to apply these approaches in drug discovery." When these new technologies are supported by efficient data processing, biologists are able to use the information rapidly to select appropriate pharmaceutical targets that are amenable to computer-assisted design or high throughput synthetic approaches by chemists to attack those targets. To keep a team that can perform such varied skills, though, Bush said, "one needs scientists who can recognize major breakthroughs and then apply them to the programs in place. It is essential to have computer-literate scientists who can move quickly into new technical areas."

When seeking candidates for virtually any scientific position, Bush and her colleagues do require strong computer skills—in both the laboratory and the office. In addition, flexibility counts. Bush said, "Individuals with scientific versatility are highly valued, because of the rapid changes that have been occurring in all areas of research." She also mentioned the value of a candidate with experience in automation and the related data analysis tools.

The fast-paced nature of technology demands that scientists at Johnson & Johnson also continue to grow. Bush indicated that the best employees cultivate broad interests. She encouraged job candidates to "maintain a strong area of expertise, but demonstrate curiosity and the willingness to learn new techniques or research areas through additional educational training, workshops, or professional meetings." ■

For further valuable career features, go to [sciencecareers.org](http://sciencecareers.org), then click on **Advice and Perspectives**.

**E U R E K A .**

***You've got it.***

*After all those late nights, long hours and lonely trips back to the drawing board, you've finally got it.*

***We're Regeneron, and we know the feeling.***

*We're a team of dedicated, purposeful and innovative scientific professionals - just like you. We're working to discover, develop and commercialize therapeutic drugs for the treatment of serious medical conditions. We have drugs in clinical and pre-clinical development for the potential treatment of obesity, rheumatoid arthritis, cancer, allergies, asthma, constipating conditions, ischemia, and other diseases and disorders.*

*Visit us at [Regeneron.com](http://Regeneron.com), where you'll learn about our exciting research and outstanding career opportunities for skilled scientific professionals like you.*

*You've got it. And we're the place for it.*

***We're Regeneron.***

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

*Regeneron is an Equal Opportunity Employer, M/F/D/V.*

**REGENERON**  
Pharmaceuticals, Inc.

MAKE THE DISCOVERY

# JOHNS HOPKINS

Department of Geography and Environmental Engineering  
Whiting School of Engineering

The Department of Geography and Environmental Engineering anticipates hiring two Assistant Professors in the following general areas:

- **Environment and Society**  
(e.g., institutional, social and economic causes and consequences of environmental change at scales from local to global; regional patterns of resource use and environmental degradation)
- **Air Pollution Chemistry**  
(e.g., aerosol sampling or characterization, experimental or combined experimental/modeling approaches to studying homogeneous or heterogeneous atmospheric chemistry)
- **Environmental Information Technology**  
(e.g., data assimilation, scientific computing, modeling/statistics of complex environmental processes)
- **Environmental Molecular Biotechnology**  
(e.g., application of microbial, molecular biological, or biochemical techniques to environmental systems)

These positions are part of Whiting School of Engineering strategic planning initiatives in Environmental Engineering, Science and Policy; Computational Modeling; Bioengineering; Materials; and Information Technology. For further information on the department please refer to the web page <http://www.jhu.edu/~dogee/>.

Applicants should demonstrate a potential for high-quality teaching as well as for developing a sponsored research program. For full consideration, candidates should apply by November 1, 2001. Expected starting date is July 1, 2002. Applications should include a complete resume, examples of published work, a statement outlining teaching and research interests, and the addresses of four individuals willing to provide references. Send materials to: **Chair of Search Committee, 3400 N. Charles St., 313 Ames Hall, Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD 21218.**

*The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

## Faculty Position in Genomics and Proteomics

Memorial Sloan-Kettering Cancer Center is seeking an outstanding individual to fill a tenure-track faculty position in the area of genomics and proteomics. Candidates should be applying the techniques of genomic and proteomic analysis to probe fundamental biological questions. The successful candidate will be expected to lead a strong independent research program. Memorial Sloan-Kettering provides an extraordinary opportunity for individuals interested in human/cancer genetics through both its clinical and basic science resources ([www.ski.edu](http://www.ski.edu)). Appointment at any level will be considered. Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and either three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: **Genomics and Proteomics Search, Ms. Linda Z. Smith, Box 150, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021.** Submission can also be made by E-mail as either Microsoft Word or pdf files to [lsmith@ski.mskcc.org](mailto:lsmith@ski.mskcc.org). Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chairman, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, [k-marians@ski.mskcc.org](mailto:k-marians@ski.mskcc.org). Application deadline is November 15, 2001. EOE/AA



**Memorial Sloan-Kettering Cancer Center**

*The Best Cancer Care. Anywhere.*  
[www.mskcc.org](http://www.mskcc.org)

## FOX CHASE CANCER CENTER Faculty Positions Human Cancer Genetics

The Human Genetics Program invites applications for two Assistant or Associate-level positions to investigate genetic aspects of cancer. The Program is an expanding, highly interactive, multidisciplinary group with a broad spectrum of research interests relevant to human cancer. Research areas of some of the current faculty are listed below, and a detailed description of ongoing investigations can be found on our web page at <http://www.fccc.edu/research/programs>.

- Alfonso Bellacosa** - MED1; DNA repair genes and human hereditary colorectal cancer.
- Paul Cairns** - Molecular detection and staging of cancer.
- Margie Clapper** - APC; GSTM1; murine cancer models; chemoprevention.
- Mary Daly** - High-risk cancer families; BRCA1 and 2.
- Antonio DiCristofano** - Mouse models of cancer; PTEN.
- Elizabeth P. Henske** - Tuberous sclerosis; TSC2; lymphangioleiomyomatosis of the lung.
- Alfred G. Knudson** - Hereditary cancer.
- Warren D. Kruger** - Genetic polymorphisms & cancer risk; folate metabolism.
- Roland Dunbrack** - Protein structure predictions; bioinformatics.
- Andrew K. Godwin** - Genetics of breast & ovarian cancers.
- Joseph R. Testa** - Tumor cytogenetics & molecular genetics; mesothelioma; AKT oncogenes.

Fox Chase Cancer Center is an NCI-designated Comprehensive Cancer Center with more than 25 cutting edge shared resources such as our Biosample Repository, Biostatistics, DNA Sequencing, DNA Microarray, and Transgenic Mouse Core Facilities. Other relevant research programs include biomolecular structure & function, biochemistry, molecular oncology, developmental biology, epidemiology, immunobiology, proteomics, virology, pharmacogenetics, and radiation biology.

New faculty will receive a generous start-up package, including funds for equipment, technical assistance and operating expenses, and laboratory space in a new, state of the art research building. **Interested candidates should send a CV, summary of research interests, and two letters of reference to: Dr. Joseph R. Testa, Director, Human Genetics Program, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** Equal Opportunity Employer.

## Found it. Challenge. Innovation. Inspiration.

If you are challenged by the possibilities of changing the world with great care, inspired by the opportunities of this challenge, and want to be a part of an innovative healthcare company, then you have found it—a career at Bayer.

### SENIOR/PRINCIPAL RESEARCH SCIENTIST

Research Triangle Park (Job Code: ASMR1802)

As laboratory head conducting research in Immunobiology, you will supervise the activities of one or more research staff while supporting the maintenance and development of Bayer's immunoglobulin product franchise. Responsibilities include formulating testable hypotheses, design and execution of in vivo and in vitro experiments and the collection, interpretation and communication of study results. As a senior member of the Research and Technology group, you will participate on research teams providing both technical expertise and intellectual input to the discovery process. A graduate degree, Ph.D., M.D. or both required, with postgraduate experience in Immunology, Cell Biology, Pathobiology or a related life science. The applicant should have 5-8 years experience in either academia or the biotechnology/bio-pharmaceutical industry. Experience in drug discovery and development with emphasis on immunoglobulins and protein drugs is strongly encouraged. Experience using immunoglobulins as therapeutic agents in either infectious disease or cancer research highly desired. Capacity to develop either in vitro or in vivo systems to test antibody efficacy and biology as well as knowledge of the role of immunoglobulins in pathobiology and autoimmunity strongly encouraged. Familiarity with GLP requirements desired.

Bayer offers a dynamic work-life balance program, 100% tuition reimbursement, competitive salaries and comprehensive benefits. Send resume including job code to: **Bayer Corporation, Pharmaceutical Division, P.O. Box 3238, Scranton, PA 18505-0238, Fax: 1-888-805-7474.** E-mail: [bayerpharma@alexus.com](mailto:bayerpharma@alexus.com) and [patricia.noell@bayer.com](mailto:patricia.noell@bayer.com) Please attach resume as Word or Text file. No agencies or phone calls. Bayer Corp. is an equal opportunity employer.

**Bayer**

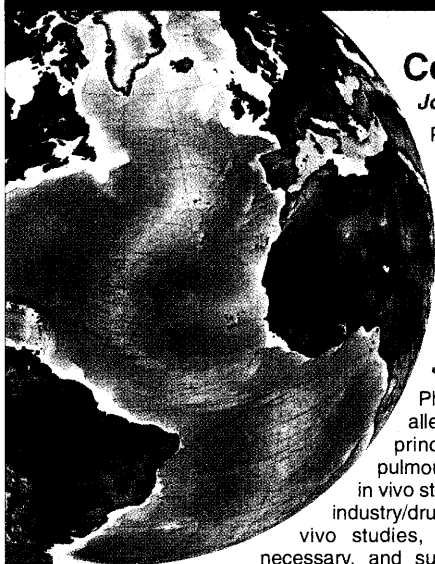
Pharmaceutical  
Division

Changing the world  
with great care.

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



## EXTENDING & ENHANCING HUMAN LIFE.



### Cell Biologist

Job Code: SM/0921/NR/01-0003235

Ph.D in a Biological Science with training in biochemistry, cell biology, or pharmacology is required. Tumor or immune cell biology expertise is essential. Emphasis on cell signaling and/or apoptosis is preferred. Must also have experience directing the design of biochemical and cell assays. Drug discovery research experience is a plus. This position will be independently responsible for directing drug discovery research programs, including identification and validation of novel drug targets. You will also be required to supervise the research efforts of 2 or more scientists.

### Pulmonary Specialist

Job Code: SM/0921/NR/01-0000171

Ph.D with 3-5 years' postdoctoral experience in Preclinical, including in vivo, models of allergy, asthma, COPD, and lung inflammation is required. Solid understanding of immunological principles involved in the pathogenesis of pulmonary disease and ability to design and perform in vivo studies a must. A background in pharmaceutical industry/drug discovery is desirable. You will conduct in vivo studies, support and/or develop new models as necessary, and supervise one or more research associates. Additionally, you will be responsible for the analysis, interpretation, and presentation of experimental data.

*We are the Bristol-Myers Squibb Pharmaceutical Research Institute (PRI), one of the world's most productive, respected and innovative research organizations. We are dedicated to extending and enhancing human life by discovering and developing innovative, cost-effective medicines that address significant unmet medical needs.*

If you would like to join our highly collaborative team, please forward your resume to:

**Bristol-Myers Squibb  
Pharmaceutical Research Institute  
PO Box 4000, Princeton, NJ 08543-4000  
Fax: (609) 252-3242  
E-mail: [recruit.pri@bms.com](mailto:recruit.pri@bms.com)  
Please reference job code.**

*Bristol-Myers Squibb is proud to be an equal opportunity employer, M/F/D/V.*



**Bristol-Myers Squibb Company**  
Pharmaceutical Research Institute

### CHEMICAL, COMPUTATION AND STRUCTURAL BIOLOGY

**Kimmel Cancer Center of  
Thomas Jefferson University**

The Kimmel Cancer Center of Thomas Jefferson University is seeking qualified candidates for tenure-track positions in the Structural Biology & Bioinformatics Program. The focus of the KCC, an NCI-designated cancer center, is to make discoveries in genetics, cell biology, biochemistry, structural biology and immunology of cancer and translate them into novel modalities for prevention, diagnosis and treatment. Investigators are supported in part by core facilities (nucleic acids, protein and peptide chemistry, confocal microscopy, pathology, x-ray and NMR, microarraying, rodents, zebrafish) and ten institutional training grants from the NCI.

Qualified candidates will have a PhD and post-doctoral experience in x-ray crystallography and/or medicinal chemistry and an interest in cancer as it relates to macromolecular structure and function. Faculty members are expected to establish and direct independent research in the Structural Biology & Bioinformatics Program and interface with investigators in the Genetics & Molecular Biology, Cell Biology & Signaling and Immunology Programs.

Qualified candidates should send a CV, statement of research and names of 3 references to: **Dr. Charles Brenner, Kimmel Cancer Center, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. ([www.kimmelcancercenter.org](http://www.kimmelcancercenter.org))** Equal Opportunity Employer.



**Thomas  
Jefferson  
University**

## Wadsworth Center

New York State Department of Health

### Toxico-/Pharmacogenomics

### Molecular Epidemiology

The Wadsworth Center's Laboratory of Human Toxicology and Molecular Epidemiology is expanding its research capacity to assess the bases and mechanisms of environmental diseases. Senior and junior level faculty are being recruited in the general areas of pharmaco- and toxicogenomics and genetic/environmental molecular epidemiology.

The Center provides an exceptional research environment, is very well equipped, and has numerous cores with common access to equipment and services.

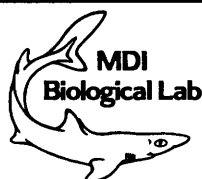
Successful candidates will be expected to establish innovative, grant-funded research programs and participate in graduate training in the Department of Environmental Health and Toxicology at the Wadsworth Center.

Applicants should submit a CV with the names of three references to:

**Dr. Laurence Kaminsky  
Deputy Director  
Division of Environmental Disease Prevention  
Wadsworth Center  
PO Box 509  
Albany, NY 12201-0509  
[kaminsky@wadsworth.org](mailto:kaminsky@wadsworth.org)**

For more information about the Wadsworth Center: [www.wadsworth.org](http://www.wadsworth.org)

*An affirmative action/equal opportunity employer.*



**Research Scientists  
Toxicology/Toxicogenomics  
Cell Biology/Physiology**

Mount Desert Island Biological Laboratory, located on Mount Desert Island, Maine, home of Acadia National Park, is a 103-year-old independent research institution. The Laboratory has world class seasonal scientific and educational programs and is expanding its year round research program in a new Center for Marine Functional Genomic Studies. MDIBL is also the lead institution establishing an NIEHS funded comparative toxicogenomics database. MDIBL invites applications for two research scientist positions at the level of Investigator.

Candidates should have, or be competitive to attain, a funded research program in toxicology/toxicogenomics or cell biology/physiology using marine species. Preference will be given to those candidates incorporating toxicogenomics, new marine transgenic species, and new marine cell lines in their research plans.

Interest in collaboration with other scientists at MDIBL is essential. Positions include attractive startup, equipment, and transition funding and eligibility for a faculty appointment in graduate programs at the University of Maine, Orono, in association with The Jackson Laboratory, Bar Harbor. Additional information is located on our web site: <http://www.mdibl.org/>.

Please send letter of interest, curriculum vitae, and the names and addresses of three references to: **Dr. John Forrest, Mount Desert Island Biological Laboratory, Box 35, Salisbury Cove, Maine 04672.** Email: [phand@mdibl.org](mailto:phand@mdibl.org)



**The University of Georgia**

**ASSISTANT PROFESSOR  
UNIVERSITY OF GEORGIA  
DEPARTMENT OF MICROBIOLOGY**

The Department of Microbiology at the University of Georgia invites applications for a tenure-track Assistant Professor faculty position in cellular/molecular aspects of microbial pathogenesis. Qualifications for this position include a doctoral degree and a minimum of two years of postdoctoral experience, a superior record of research productivity, and a commitment to excellence in classroom instruction. Responsibilities will include the development of a strong, independent, externally funded program of research and graduate training, as well as teaching in undergraduate and graduate level courses within the Department. Salary will be commensurate with qualifications and experience.

Applicants should submit a curriculum vitae and statement of research and teaching interests and should have at least three letters of reference sent prior to the closing deadline. All applications must be received by December 14, 2001. The target date for filling this position is August 19, 2002. Submit applications to: **Search Committee, Department of Microbiology, The University of Georgia, Athens, GA 30602-2605.**

*The University of Georgia is an AA/EEO institution. Women and minorities are encouraged to apply.*

**Editor of *The Scientist***

*The Scientist*, the biweekly news journal for life scientists, is seeking an Editor to lead it during an exciting period of growth. With our able team of professional editors and writers, the Editor will be responsible for refining and expanding the editorial mission of *The Scientist*.

*The Scientist* has a readership of over 120,000 in print and 200,000 per month on the Web and is poised for significant additional growth. This is a unique opportunity for a dynamic individual to guide *The Scientist* in serving this large and growing audience.

**The Editor will have:**

- Ph. D. or equivalent in a life science research related subject.
- Experience in writing outside the research literature.
- Extensive knowledge and understanding of life science research and the issues facing research scientists.
- Ability to translate scientific issues into an editorial vision, and to interact easily with staff, freelance writers, the Editorial Advisory Board, and the science community.

Please send your resume and a sample of your writing to Alexander Grimwade, Publisher ([agrimwade@the-scientist.com](mailto:agrimwade@the-scientist.com)) This is a full-time position based in *The Scientist's* Philadelphia office.

**[www.the-scientist.com](http://www.the-scientist.com)**

**Tenure Track Faculty Positions in Genetics  
and  
Developmental Biology**

The newly created Department of Genetics and Developmental Biology at the University of Connecticut School of Medicine is seeking highly qualified individuals with an outstanding background in developmental genetics of a variety of systems. Areas of interest include but are not limited to genomics and proteomics, genetic control of cell growth and differentiation, nuclear structure and function, DNA replication and genetic and epigenetic mechanisms of gene regulation.

Applications are now invited for two such positions at the Assistant, Associate or Full Professor level. Faculty will enjoy superb resources including generous start-up funds and space in a new research building. There are state-of-the-art core facilities for mouse transgenics and ES cell manipulation, microarray production and analysis, nucleic acid sequencing, flow cytometry, confocal microscopy and fluorescence imaging. Faculty will be expected to establish independent and innovative research programs that will attract extramural funding and to actively contribute to a rich scientific environment.

Candidates are invited to visit the departmental web page (<http://genetics.uchc.edu>) and should apply by submitting a curriculum vitae, selected publications and the names of three references to:

**Marc Lalonde, Ph.D.  
Professor and Chair**

**Department of Genetics and Developmental Biology  
The University of Connecticut Health Center  
School of Medicine  
Farmington, CT 06030-3301**

**NIGMS**  
**National Institute of General Medical Sciences**  
**National Institutes of Health**  
**Bethesda Maryland**

**DIRECTOR, CENTER FOR BIOINFORMATICS  
AND COMPUTATIONAL BIOLOGY**

**The Challenge:** As biomedical research enters the post-genomic era, the challenge will be to integrate the vast amount of scientific data that has been accumulated in order to understand basic biological processes. The ability to meet this challenge will be critically dependent on advances in bioinformatics and computational biology. To this end, NIGMS has formed a Center which will be responsible for stimulating and funding research in areas of importance for NIGMS. The Center also has the responsibility for managing the Biomedical Information Science and Technology Initiative Consortium (BISTIC), (<http://grants.nih.gov/grants/bistic/bistic.cfm>). This position is for the Director of that Center.

**The Requirements:** You must have a doctorate or equivalent degree in a field relevant to the position. The ideal candidate will have an established research program in either bioinformatics or computational biology (or a closely related area). In addition, you should possess recognized management and leadership abilities. The position will be filled under Title 42, offering a competitive salary commensurate with qualifications and experience. A recruitment or relocation bonus may be available. An intramural research program is possible, subject to negotiation.

For further information, contact the Chairman of the search committee:

**James Cassatt, Ph.D.**  
(301) 451-6446  
[cassattj@nigms.nih.gov](mailto:cassattj@nigms.nih.gov)

To apply, send a curriculum vitae, which includes a list of publications, a statement expressing your vision for research in bioinformatics and computational biology related to the mission of NIGMS (see especially <http://www.nigms.nih.gov/news/reports/planning.html#vision>), and two letters of recommendation to:

**Lynn Pupkar**  
**NIGMS Personnel Office**  
**45 Center Drive - MSC 6200**  
**Bethesda, MD 20892-6200**  
(301) 594-2749; fax (301) 480-0850  
by e-mail: [NIGMSAPPS@NIGMS.NIH.GOV](mailto:NIGMSAPPS@NIGMS.NIH.GOV)  
TDD (301) 402-6327

Closing date: November 20, 2001 – All applications must be postmarked by the closing date.

*NIH is an equal opportunity employer*

# Changing the Nature of Drug Discovery.

This is a unique time in history for  
**entrepreneurial scientists** to join us.

**AKCELI** is a venture-backed, seed-stage biotech start-up. Recently published in **Nature**, our core technology is a **microarray-based transfection system**. AKCELI bioarrays have **applications** at multiple stages of the **drug discovery** and **development** process, including target **ID/validation**, **high-throughput screening**, and **compound optimization**.

## **PhD level and BS/MS level Scientists**

Molecular biology • Cell biology • Cell-based HTS • Biochemistry • Biophysical chemistry

## **Business Development Analyst/Associate**

## **Bioinformatics Scientist**

## **Lab Manager**

Akceli offers competitive salary, benefits and equity packages as well as opportunities for advancement in a rapidly growing organization.

Please visit [akcelicareers.com](http://akcelicareers.com) for more information. Resume and cover letter may be submitted via email or mail to:

[HR@Akceli.com](mailto:HR@Akceli.com)

Akceli, Inc., PMB 473, One Kendall Square,  
Building 600, Cambridge, MA 02139

Akceli is an equal opportunity employer.

# AKCELI





### Tenure-Track Clinical Investigator Position in Endocrinology, NIH

The National Center for Complementary and Alternative Medicine (NCCAM) seeks exceptional candidates for a tenure-track clinical investigator position in Endocrinology and Metabolism in its new Intramural Research Program on the National Institutes of Health campus in Bethesda, Maryland. Applicants must possess an M.D. or D.O. degree, be licensed to practice medicine within the United States, and have substantial research and clinical training in the area of endocrinology.

The successful candidate will be expected to establish an independent, patient-oriented research program to assess the potential efficacy, safety, and mechanisms of action of selected, complementary and alternative (CAM) modalities that are relevant to the areas of aging, stress, depression and osteopenia. Prior research experience in related areas and a promising publication record involving clinical trials and translational research are highly desirable. Laboratory and clinical support and access to the incomparable facilities of the NIH Clinical Center are committed to the successful applicant. Salary and benefits will be commensurate with experience. Applications from women, minorities and individuals with additional training in some CAM discipline are encouraged.

Candidates are invited to submit a curriculum vitae, and the names and addresses of three references, to: **Dr. Derek LeRoith, Chair, Endocrine Search Committee, Intramural Research Program, NCCAM, NIH, 6707 Democracy Blvd, Suite 200, Bethesda, Maryland 20892.**

Applications must be postmarked by **November 15, 2001.**

**NIH is an Equal Opportunity Employer**



### Staff Clinician Position in Endocrinology, NIH

The National Center for Complementary and Alternative Medicine (NCCAM) seeks outstanding candidates for a staff clinician position in Endocrinology and Metabolism in its new Intramural Research Program on the National Institutes of Health campus in Bethesda, Maryland. Applicants must possess an M.D. or D.O. degree, be licensed to practice medicine within the United States, and have substantial clinical and research training in the area of endocrinology.

The successful candidate will be expected to contribute importantly to a patient-oriented research program designed to assess the potential efficacy, safety, and mechanisms of action of selected, complementary and alternative (CAM) modalities. A specific research interest and experience in the areas of neuroendocrinology, aging and stress, and prior experience and publications in phase I, II and/or III clinical trials, are highly desirable. The extensive clinical research facilities of the NIH Clinical Center will be made available to the successful applicant. Salary and benefits will be commensurate with experience. Applications from women and minorities are encouraged.

Candidates are invited to submit a curriculum vitae, and the names and addresses of three references, to: **Marc R. Blackman, M.D., Clinical Director, Intramural Research Program, NCCAM, 6707 Democracy Blvd, Suite 200, Bethesda, Maryland 20892.**

Applications must be postmarked by **November 15, 2001.**

**NIH is an Equal Opportunity Employer**

### Postdoctoral Opportunities in Genetics and Developmental Biology

A dynamic and rapidly expanding department is seeking highly motivated postdoctoral researchers. The Department of Genetics and Developmental Biology was founded in 1999 and is housed in newly constructed laboratories at the University of Connecticut Health Center in Farmington, Connecticut. Major research areas in the department include genetic disorders of imprinting and skeletal development, mechanisms of aging, RNA editing and splicing, microbial pathogenesis, and signal transduction. The department also has access to state-of-the-art facilities for transgenic and knockout mice, genomics and microarrays, flow cytometry, macromolecule mass spectroscopy, and biological imaging.

#### Faculty:

**Stephen Clark** - Murine models of connective tissue disease.

**Brent Graveley** - The molecular basis of regulated alternative splicing.

**Stephen Helfand** - Molecular genetics of aging.

**Marc Lalande, Chair** - Genomic imprinting; DNA methylation; embryonic stem cells; proteomics.

**Alex Lichtler** - Regulation of gene expression in bone; gene therapy for bone diseases.

**Bruce Mayer** - Protein-protein interactions in tyrosine kinase signaling; proteomics.

**Choukri Ben Mamoun** - Stress response in the human malaria parasite *Plasmodium falciparum*.

**William Mohler** - Developmental cell fusion; effects of aging on skeletal muscle; non-linear optics and live imaging.

**Robert Reenan** - Drosophila neurogenetics; genetics of RNA processing; RNA editing.

**Blanka Rogina** - Molecular genetic determinants of aging and longevity.

**David Rowe** - Functional genomics; regulation of gene expression in bone.

**Dianqing Wu** - Molecular basis and function of GPCR; Wnt-mediated signaling.

Visit the department web site for further details (<http://genetics.uchc.edu>). A number of postdoctoral opportunities are currently available in the Department. Please contact individual faculty to apply.

**Department of Genetics and Developmental Biology, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3301**

## Faculty Position in Genomic Integrity

Memorial Sloan-Kettering Cancer Center invites applications for a tenure-track faculty position. The successful candidate will be expected to establish a vigorous research program probing fundamental biological mechanisms that act to maintain genomic integrity. Memorial Sloan-Kettering offers an outstanding research environment and support infrastructure ([www.ski.edu](http://www.ski.edu)). Appointment at any level will be considered. Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and either three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: **Genomic Integrity Search, Ms. Linda Z. Smith, Box 150, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021.** Application submission may also be via E-mail to [lsmith@ski.mskcc.org](mailto:lsmith@ski.mskcc.org) as either Microsoft Word or pdf files. Recommendation letters should be forwarded by post. Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chairman, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, [k-marians@ski.mskcc.org](mailto:k-marians@ski.mskcc.org). *Application deadline is November 15, 2001. EOE/AA*



**Memorial Sloan-Kettering  
Cancer Center**

*The Best Cancer Care. Anywhere.*  
[www.mskcc.org](http://www.mskcc.org)

# expect more.

Develop a **career** that really delivers.

We began pursuing new opportunities in drug delivery. We've surpassed our goals, created three innovative delivery systems, gained FDA approval for our first product, and have built a robust pipeline of product candidates.

Now, we're leveraging our experience in drug development to become a pharmaceutical company. **Expect more.**

## Join Alkermes.

As a key contributor to our expanding success, you will receive a fully competitive compensation package with stock options, excellent benefits, and a company-matched 401(k) plan. Please apply on-line and see our career video at: [alkermes.com](http://alkermes.com)

*We are an equal opportunity employer relying on the strength of a diverse workforce.*

We have opportunities available in **Cambridge, MA** for candidates with a background in:

- PHARMACOLOGY/BIOLOGICAL RESEARCH
- PHARMACOKINETICS
- FORMULATIONS

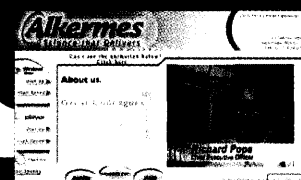
*Our Cincinnati and Wilmington, Ohio locations are experiencing unprecedented growth due to a potential new pharmaceutical product. We are currently looking for motivated self-starters with a background in:*

- FORMULATIONS
- ANALYTICAL CHEMISTRY

**Alkermes**  
Science that Delivers

Please apply on-line and see our career video at:

**alkermes.com**



EAST COAST CAREERS



## Yale University

### Faculty Position in Vector Biology

Applications are invited for a faculty position at the assistant professor level within the Division of Epidemiology of Microbial Diseases, Department of Epidemiology and Public Health, Yale University School of Medicine, New Haven, CT, USA.

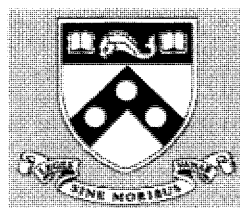
Applicants should have a Ph.D. or equivalent with training and experience in entomology, and would be expected to develop an innovative program of extramural funded research in their area of expertise. The successful candidate will participate in graduate teaching and training of students in the MPH and Ph.D. programs.

Candidates interested in insect/pathogen interactions, novel approaches to vector-borne disease management, molecular aspects of vector competence, or vector/pathogen ecology are particularly encouraged to apply.

Applicants should send a curriculum vitae, statement of professional goals, and the names and addresses of three references by November 30, 2001, to:

**Durland Fish, Ph.D.**  
Chair, EMD Search Committee  
Department of Epidemiology & Public Health  
Yale University School of Medicine  
P.O. Box 208034  
New Haven, CT 06520-8034

*Yale University is an Affirmative Action/Equal Opportunity Employer and encourages applications from qualified women and minority candidates.*



## UNIVERSITY OF PENNSYLVANIA

NIH Sponsored Postdoctoral Training in Cell/Molecular Basis of Urological Diseases: Division of Urology invites applications from prospective postdoctoral fellows (Ph.D., D.V.M.-Ph.D. or M.D.-Ph.D.) with background in physiology, cell/molecular biology, or biochemistry. This training program

differs from the conventional postdoctoral training in exposing the postdoctoral fellows to clinical problems, while carrying out cell/molecular biology research. The fellows will have exposure and opportunities to translate basic science information into new diagnostic, preventive and therapeutic strategies. The rapid and effective translation of basic scientific discoveries is greatly facilitated by mentoring from basic and clinical scientists.

The current research interests in the Division of Urology at the University of Pennsylvania Medical Center\* include (1) alterations of intracellular kinases, phosphatases, and anchoring proteins in smooth muscle urological diseases, (2) smooth muscle signaling mechanisms and regulation in diabetes and smooth muscle remodeling, (3) study of the cell/molecular basis of urinary incontinence, voiding dysfunction, and erectile dysfunction, (4) connective tissue matrix remodeling, and (5) prostate and bladder cancer. However, the program is flexible and any other topics related to urogenital system may be accommodated by recruiting mentors with appropriate expertise from Penn's biomedical science community. Trainees will receive stipend at NIH level, health insurance and tuition for courses in molecular biology and gene therapy. Successful applicants should be highly motivated and have (1) a Ph.D. (obtained within last three years) in biomedical sciences from a U.S. or foreign University and (2) U.S. citizenship or immigrant status. Interested candidates should forward their CV and the names of two references to **Dr. Samuel K. Chacko, Director of Basic Urological Research, 3010 Ravdin-Courtyard, HUP, U of Pa, 3400 Spruce St., Philadelphia, PA 19104. Fax: (215) 349-5026; E-mail: [chackosk@mail.med.upenn.edu](mailto:chackosk@mail.med.upenn.edu).** \*An Affirmative Action/ Equal Opportunity Employer

THE STATE UNIVERSITY OF NEW JERSEY  
**RUTGERS**

**Executive Dean of Agriculture  
 and Natural Resources  
 Executive Director of the New Jersey  
 Agricultural Experiment Station  
 and Dean of Cook College**

Rutgers, The State University of New Jersey, has reopened the search for Executive Dean of Agriculture and Natural Resources with responsibilities for George H. Cook College and the New Jersey Agricultural Experiment Station (NJAES). Cook College serves approximately 4,000 students, offering undergraduate and graduate professional programs through 13 academic departments. Cook/NJAES has a faculty of approximately 300 and a staff of approximately 550. The Agricultural Experiment Station includes 17 research centers and field stations and maintains an extensive network of outreach, including Rutgers Cooperative Extension (RCE), which has agents in each of the state's 21 counties. Cook/NJAES has an annual appropriated budget of approximately \$40 million.

New Jersey's dynamic and diverse economic and cultural environment demands that Cook/NJAES be pluralistic and adaptive in serving an increasingly broad and diverse constituency. Cook/NJAES's vision is to make its name synonymous with solutions: integrating research, teaching, and outreach to respond to issues and challenges in food systems, environment and natural resources, and human and community development. Cook's academic programs are designed to promote the study of these challenges by integrating the natural and physical sciences with the social sciences and humanities, and by using conceptual frameworks that explore human interactions with the earth's system. Rutgers Cooperative Extension maintains a strong connection to the agricultural base of Cook/NJAES, while also emphasizing programs of human and community development in rural, suburban, and urban areas of the state. The successful candidate will work with faculty, staff, students, and external constituents to further build, strengthen, and focus these programs.

Rutgers University is a member of the American Association of Universities (AAU) and a number of its graduate programs are ranked in the top twenty by the National Research Council. The University has over 49,000 undergraduate and graduate students on three campuses—Camden, New Brunswick, and Newark—and last year had over \$185 million in research awards and contracts.

The Executive Dean reports to the University Vice President for Academic Affairs. The successful candidate must be able to balance the demands of leadership of Cook College and the NJAES with the need to maintain and nourish a learning atmosphere that is centered on the Cook/NJAES community of students, faculty, and staff, and must be an established scholar of international stature in the scientific community, with demonstrated excellence in teaching and research. In addition, candidates are expected to provide evidence of administrative achievement; experience in outreach, extension, and service; and demonstrated leadership ability at both the state and university level.

Review of applications will begin on October 15, 2001, and continue until the position is filled. Nominations and applications should be sent to:

**Chair, Search Committee  
 Executive Dean of Agriculture and Natural Resources  
 Office of the University Vice President for Academic Affairs  
 Rutgers, The State University of New Jersey  
 Old Queen's Building Room 302, 83 Somerset Street  
 New Brunswick, NJ 08901**

*An Affirmative Action/Equal Opportunity Employer*



**St. Jude Children's  
 Research Hospital**

ALBAC - Danny Thomas, Founder

## POSTDOCTORAL POSITION

A postdoctoral position is available to study the molecular mechanisms leading to the epigenetic silencing of critical genes in cancer and other diseases. Studies will focus on the role of DNA methyltransferase (DNMT) complexes in the initiation and maintenance of epigenetically silenced gene expression states. This position is ideally suited to applicants who have recently received a Ph.D. with experience in molecular biology, biochemistry, and/or cell biology. Candidates who have experience with model systems (yeast, *Drosophila*, etc.) are encouraged to apply.

St. Jude Children's Research Hospital (Danny Thomas, Founder) is an outstanding biomedical research center with state-of-the-art facilities and provides an exceptional environment for scientific achievement and career development. This position offers a highly competitive stipend and benefits package including funds for professional travel.

Candidates should send a letter of interest, curriculum vitae and the names of three references to:

**Michael R. Rountree, Ph.D.  
 Department of Molecular Pharmacology  
 St. Jude Children's Research Hospital  
 332 North Lauderdale  
 Memphis, TN 38105**

**Fax: (901) 521-1668**

*SJCRH is an Affirmative Action/Equal Opportunity Employer.*

# Juniata

COLLEGE

## Environmental Science and Studies (ESS) and Information Technology (IT)

Juniata College invites applications for a new, tenure-track position in Environmental Sciences and Information Technology. The ESS/IT position could include some combination of systems science (especially water resource systems, atmospheric systems, decision support systems, energy systems or landscape ecology), environmental management, modeling, data capture, storage, processing, analysis and graphical display. Candidates with strong backgrounds in all aspects of the environmental science who have a background and interests in information technology are sought.

Candidates should have experience with Geographical Information Systems (GIS), have the ability to teach introductory IT courses, supervise IT and ESS team projects and teach an environmental science course in their specialty area. Candidates should hold a doctorate degree. Candidates should have a strong commitment to undergraduate education, as well as engaging students in funded research. Please see our web site ([services.juniata.edu/hresources](http://services.juniata.edu/hresources)) for a more complete position description.

Please send a cover letter, a CV and three letters of reference to **Ms. Gail Leiby Ulrich, Human Resources, Juniata College, 1700 Moore Street, Box P, Huntingdon, PA, 16652**. Review of applications will begin October 31, 2001 and continue until position is filled. *Juniata College is committed to cultural and gender diversity. Women and minorities are encouraged to apply.*

AA/EOE



### TENURE TRACK INVESTIGATOR AT NIH

The Laboratory of Gene Regulation and Development (LGRD) in the National Institute of Child Health and Human Development invites applicants for the position of Tenure Track Principal Investigator studying gene expression or signal transduction, with emphasis on development, model systems, and a genetic approach. The LGRD provides an interactive environment featuring studies on transcriptional and translational control, nucleocytoplasmic transport, chromosome structure, transposition, signal transduction, and amphibian development, using yeasts, mammalian cells, and frogs. Applicants should have a Ph.D or M.D. and a proven ability to conduct innovative research. Send a curriculum vitae, 2-page statement of research plans, and three letters of recommendation by November 2, 2001 to:

**Alan Hinnebusch, Ph.D.**  
NIH  
Building 18T, Room 106  
Bethesda, MD 20892

*NIH is an Equal Opportunity Employer.*

## DO SOME GOOD (science)

We seek experienced and motivated scientists to develop products that improve healthcare. Emphasizing teamwork, creativity, and intellectual achievement, we are dedicated to providing a challenging and stimulating work environment, state-of-the-art labs, and a generous salary/benefits package.

You should be an energetic self-starter with well-documented productivity and integrity; strong organizational, interpersonal, and communication skills required.

### VP OF Product Devel. (job code: DS901)

You should have successfully managed all stages of in vitro diagnostic immunoassay instrumentation product development and commercialization, including R&D, regulatory, QSR, and manufacturing. Your ability to manage the commercial development of research-stage diagnostic projects should be supported by numerous examples of the successful finished products. Role includes: strategic planning, supervising multiple teams, representing company, product planning/budgeting, managing IP/licensing, and attracting/managing contracts & alliances. Ph.D., >12 yr in industry.

### SR. SCI. / SCIENTISTS (job code: SS901)

You should have proven abilities in conceptualizing, developing, optimizing and troubleshooting new diagnostic immunoassays. Sr. Scientists must have solid team leadership & project management abilities, and must have demonstrated excellence in product development for infectious disease immunoassays in industry. Ph.D. + postdoc.

### Genomic Profiling Systems

is an exciting, well-financed, Cambridge-based start-up company with breakthrough technology for producing a new generation of tools that promise to revolutionize infectious disease diagnostics.

Please submit a resume, one page cover letter, and contact information for 3 references (specifying relationship) to:

**Job Code**  
**Genomic Profiling Systems, Inc.**  
840 Memorial Drive, 4th Fl  
Cambridge, MA 02139

Or FAX to: 617 547-6060

Or email (text or attached MS Word file) to:

**jobs@genprosys.com**

(include last name & job code in BOTH the subj. line of email AND attached filename)

**Postdoctoral/scientist positions:** Three positions are available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development, with an emphasis on islet stem cell biology and applications of islet transplantation to treatment of diabetes. Applicants are expected to have a strong background in cellular and developmental biology. Expertise in biology of pancreas is preferred but not required. The positions offer an exceptional opportunity to study pancreatic differentiation using several model systems, and to explore the relationships between pancreatic and non-pancreatic development within the interdisciplinary approaches of stem cell biology. Salary is commensurate with experience. Interested applicants should send a curriculum vitae and names of three references to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818.**

**Research associate/technician:** Position is available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development and applications stem cell technology to treatment of diabetes. Applicant must have a B.S. or M.S. degree in biochemistry, molecular biology or cell biology with at least 2 years of professional experience. Expertise in standard molecular biological, biochemical, and mammalian cell culture techniques is required. Responsibilities include performing laboratory experiments independently as well as a part of a team, keeping records of experimental procedures and reagents, and conducting laboratory management/organizational tasks. Salary is commensurate with experience. Interested applicants should send a curriculum vitae to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818.**

### CUBIST

### Head of Pharmaceutical Sciences

An immediate opportunity exists for a Head of Pharmaceutical Sciences to direct formulation research and development activities for current and future Cubist pipeline opportunities. Key responsibilities will include formulating goal and resource plans for the Pharmaceutical Sciences Group, implementing these plans utilizing internal and external resources and identifying novel technologies that add value to current and future development candidates. Additional responsibilities include optimizing formulations of current pipeline products and leading the Cubist initiative to provide oral dosage forms of IV antibiotics. Long-term responsibilities of the position will focus on the creative use of dosage forms to create opportunities and build value for Cubist.

Qualified candidates will possess a Ph.D. or Pharm.D. in Pharmaceutical Sciences or a related discipline. Experience in the identification and development of oral formulations with enhanced permeability properties and enteric delivery methods is preferred. Successful candidates will also possess experience in the design and development of pharmaceutical dosage forms, including leading and managing dosage form development activities. A significant prior contribution by the candidate to the design and development of a pharmaceutical product that was successfully commercialized is highly desirable. Candidates must have effective leadership, management, communication and interpersonal skills with a strong commitment to teamwork.

Job Code: CAM-018

At Cubist Pharmaceuticals, we offer competitive compensation, stock options, outstanding growth opportunities and a comprehensive benefits package including 100% vesting in our 401K plan, choice of HMO/PPO medical plan, employee stock purchase program, dental, life and disability insurance, tuition reimbursement, flexible spending accounts and 3 weeks vacation. In addition, we have unique extras such as: on-site massage therapy, free parking and public transportation, 11 holidays, 4 of which are floating holidays and an EAP benefit focusing on work life balance issues. Qualified candidates, please submit your electronic curriculum vitae, clearly referencing the Job Code, to: **Cubist Pharmaceuticals, Inc., Human Resources, hr@cubist.com**

*We are an equal opportunity employer.*

Please visit our website at: [www.cubist.com](http://www.cubist.com)

**CURE YOUR CAREER.**



**Post-Doctoral Position  
Harvard Medical School  
Massachusetts General Hospital**

Top Harvard laboratory is seeking qualified Post-doctoral Fellow in molecular biology and immunology. Many projects focus on NF-KB activation and proteasome biology as well as projects on autoimmune diseases. Proficiency in advanced molecular biology techniques are required as well as motivation and high scientific competence. Preference is extended to Ph.D. candidates.

Please submit a cover letter and CV; a statement of your goals; and three contact people with phone numbers for recommendations.

Send the above materials to:

**Ms. Lynne Murphy**  
Administrative Assistant  
c/o Dr. Denise Faustman  
Massachusetts General Hospital  
Building 149, 13th Street, Room 3601  
Charlestown, MA 02129  
LMurphy1@partners.org



**Flow Cytometry Position  
Harvard Medical School  
Massachusetts General Hospital**

We are looking for a full-time flow cytometer operator to run the Flow Cytometry Core in the Immunobiology Laboratory at the Massachusetts General Hospital in the beautiful Charlestown Navy Yard Facility (on the Boston waterfront).

Primary duties will include: (1) operation and maintenance of a **Coulter Epics Elite Flow Cytometer**; (2) conduct laboratory experiments that use FACS technology; (3) provide education to users in preparation and execution of experiments; and (4) develop sophisticated sorting procedures. The applicant must be a self-starter, motivated, ambitious and organized.

Experience with the performance and operation of a Coulter Epics Elite Flow Cytometer machine is highly sought. This individual should be able to perform careful laboratory techniques with strict attention to detail, possess good communication and interpersonal skills, and a strong knowledge of computer software. A BS, M.D., or Ph.D. degree required.

Please submit a cover letter and CV; a statement of your goals; and three contact people with phone numbers for recommendations.

Send the above materials to:

**Ms. Lynne Murphy**  
Administrative Assistant  
Massachusetts General Hospital  
Building 149, 13th Street, Room 3601  
Charlestown, MA 02129  
LMurphy1@partners.org



**CENTER FOR  
NEUROSCIENCE**

The Center for Neuroscience of the Children's Research Institute (CRI), at Children's National Medical Center (CNMC) is recruiting for three tenure track Assistant Professors to develop independent research programs in development of the cerebral cortex; glial development and neuron-glia interactions; stem cells; signal transduction and gene expression in neural cells during development. Newly constructed lab space and excellent start-up support package are offered. Candidates should have established strong research credentials with a substantial record of quality publications and preferably grant support. This position includes a faculty appointment in the tenure track at George Washington University's School of Medicine.

A two-page statement of research interests and goals, CV, bibliography and the names of three people willing to write recommendation letters should be mailed to:

**Dr. Vittorio Gallo, Director**  
Center for Neuroscience  
Children's Research Institute  
111 Michigan Avenue, N.W.  
Washington, D.C. 20010-2970

**THE PENNSYLVANIA STATE  
UNIVERSITY  
SENIOR ECOLOGY POSITION  
IN BIODIVERSITY, ECOSYSTEMS,  
OR GLOBAL CHANGE**

The Pennsylvania State University is in the midst of recruiting 5 new senior faculty and 25 new junior faculty in a University-wide effort to increase the visibility, stature, and impact of an already strong, diverse program of environmental research and education. As part of the University's Environmental Consortium effort, The Department of Biology invites applications for a Senior Ecologist (Professor level) with an internationally recognized research program that addresses fundamental issues surrounding Biodiversity, Ecosystem Ecology, and/or the impact of Global Change on populations and communities. Preference will be given to applicants who, by virtue of the quality of their research programs, will provide leadership within the Biodiversity/Ecosystems theme group of the Environmental Consortium and whose research will take advantage of the considerable expertise and facilities available within the Environmental Consortium ([www.environment.psu.edu](http://www.environment.psu.edu)) and Department of Biology ([www.bio.psu.edu](http://www.bio.psu.edu)).

Applicants should submit a letter of interest, curriculum vitae, and the names and contact information of three references to: **Dr. Andrew G. Stephenson, c/o Ms. Lisa Stock, Box A, 208 Mueller Lab, University Park, PA 16802.** Screening of applicants will begin on November 1, 2001 and continue until the position has been filled.

AA/EOE



**Director, Division of Viral Products**

The FDA, Center for Biologics Evaluation and Research, Office of Vaccines Research and Review is searching for a Director for its Division of Viral Products. The Director is responsible for managing a staff of approximately 75 scientists and support staff in assuring the safety and effectiveness of vaccines used in the prevention of viral diseases. **US Citizenship is required.** Applicants possessing an M.D., PhD. or M.D./PhD. are highly desired. Applicants must have experience in managing a broad scientific research or regulatory program; a demonstrated ability to deal effectively with high-level governmental officials, the scientific and academic communities, medical and health-related organizations, representatives of the regulated industry and others; and the ability to implement equal employment opportunity programs. For additional information including salary and benefits, please contact **Linda McGahey** at 301-827-0655 by November 2, 2001 and/or log on to [www.fda.gov/cber/inside/vacancy.htm](http://www.fda.gov/cber/inside/vacancy.htm), select Director, Division of Viral Products.

*This Agency Provides Reasonable  
Accommodations to Applicants  
with Disabilities.  
Equal Opportunity Employer.  
Smoke Free Environment.*

## Faculty Positions in Developmental Biology

Memorial Sloan-Kettering Cancer Center invites applications for tenure-track faculty positions at any level in Developmental Biology. Successful candidates will carry out independent research programs addressing problems in any aspect of developmental biology. Topics of particular interest include: morphogenesis, pattern formation, cell and tissue polarity, organogenesis, and neural development. Research could focus on either vertebrate or invertebrate development; genetic approaches are appreciated. The new faculty members will join a community of developmental biologists in several research programs at Memorial Sloan-Kettering Cancer Center, which offers an outstanding research environment and support infrastructure ([www.ski.edu](http://www.ski.edu)). Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: **Developmental Biology Search, Steven Cappiello, Box 193, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021**. Application submission may also be via E-mail to [s-cappiello@ski.mskcc.org](mailto:s-cappiello@ski.mskcc.org) as either Microsoft Word or pdf files. Recommendation letters should be forwarded by post. Inquires to either Steven Cappiello or Dr. Kathryn Anderson, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, [k-anderson@ski.mskcc.org](mailto:k-anderson@ski.mskcc.org). *Application deadline is November 15, 2001. EOE/AA*



**Memorial Sloan-Kettering  
Cancer Center**

*The Best Cancer Care. Anywhere.*  
[www.mskcc.org](http://www.mskcc.org)



## H A M P S H I R E C O L L E G E

### Assistant Professor of Environmental Microbiologist/ Microbial Ecologist

Hampshire College, an independent, innovative interdisciplinary liberal arts institution and member of the Five College Consortium, is seeking a microbiologist or microbial ecologist with expertise in topics such as soil fertility, sustainable agriculture, or related agro-environmental topics. The successful candidate will use our 800-acre campus including a Farm Center for student-centered research. We seek a scientist who can teach courses such as soil or environmental microbiology and biochemistry, with close relationships to organic agriculture, and environmental stewardship. The School of Natural Science has several programs that can be used as a basis for field research and campus activities: Environmental Science and Sustainability, Women in Science, and US SW and Mexico Programs.

We seek a scientist whose teaching and research can engage students in research at the introductory and advanced levels. We emphasize hands-on science teaching and student-centered learning with projects. The candidate's ability to combine undergraduate teaching and research in innovative, creative and engaging ways will be weighed more heavily than the specific disciplinary focus. PhD is preferred. Candidates should briefly discuss their ideas for teaching in their application letter.

Hampshire College prides itself on providing a cutting edge education, encouraging creative experimentation, critical thinking and interdisciplinary learning. Within their individualized degree program, students engage in independent research, participate in community based learning and explore their areas of study from multiple cultural perspectives. Application review begins on October 19, 2001. Send or fax a letter of application, vitae, three letters of recommendation to: **Laurie Smith, Administrative Assistant to the Dean, School of Natural Science, Hampshire College, Amherst, MA 01002; Fax: 413-559-5448; [www.hampshire.edu](http://www.hampshire.edu)**

*Affirmative Action/Equal Opportunity Employer*



## NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES NATIONAL INSTITUTES OF HEALTH

### SENIOR SCIENTIFIC LEADERSHIP POSITIONS

The Division of Allergy, Immunology and Transplantation at the National Institute of Allergy and Infectious Diseases (NIAID) is seeking senior scientists to lead and direct expanding national and international programs in basic, pre-clinical and clinical research on immune-mediated diseases, including: asthma and allergic diseases; autoimmune disorders; primary immunodeficiency diseases; and transplantation immunobiology and clinical research. Dynamic and creative individuals with Ph.D. and/or M.D. degrees, experience in basic and clinical research, and strong written and oral communication skills will participate in the oversight, design and development of established and new research programs.

NIAID is currently recruiting for the following senior scientific positions.

### TRANSPLANTATION

Chief, Transplantation Immunobiology Branch

Chief, Clinical Transplantation Section, Transplantation Immunobiology Branch

### AUTOIMMUNE AND PRIMARY IMMUNODEFICIENCY DISEASES

Chief, Clinical Immunology Branch

Chief, Immunodeficiency and Immunopathology Section, Clinical Immunology Branch

Medical Officer, Autoimmune Diseases Clinical Trials Program

### ASTHMA AND ALLERGIC DISEASES

Chief, Asthma, Allergy and Inflammation Branch

### OFFICE OF CLINICAL APPLICATIONS

Medical Officer, Immune Tolerance Clinical Research Program  
Health Scientist Administrator/Medical Officer, Regulatory and Industry Affairs

Annual compensation may range between \$74,697 and approximately \$144,000, commensurate with experience, education and the level of responsibility of the position. Other incentives may apply.

Interested persons may contact Dr. Daniel Rotrosen, Director, Division of Allergy, Immunology and Transplantation, NIAID, at [drotrosen@niaid.nih.gov](mailto:drotrosen@niaid.nih.gov) for additional information about these positions. A curriculum vitae including bibliography should be submitted to **Ms. Sheila Conner, Office of Human Resources Management, NIAID, 6700B Rockledge Drive, Room 1213, Bethesda, MD 20892-7603**. Applicants should also identify the position(s) for which they wish to be considered.

*NIH is an Equal Opportunity Employer*

**Laboratory of Molecular Biology, Cambridge  
Molecular Biology of HIV**

**Postdoctoral Position**

A postdoctoral position is available in the group headed by Dr J Karn at the Laboratory of Molecular Biology, Cambridge. The work of the group focuses on the HIV regulatory proteins Tat. On-going projects range from structural studies of the complexes formed between Tat, TAK and their RNA-recognition sites to biochemical and genetic studies of the mechanisms of action of Tat. For a recent review and publications, see: Karn (1999) J. Mol. Biol. 293, 235-254, West & Karn (1999) EMBO J. 18, 1378-1386; Isel & Karn (1999) J. Mol. Biol. 290, 929-941; West & Karn (2001) J. Virol. 75, 8524-8537. Experience in the biochemistry of transcription, molecular virology and/or gene expression in mammalian cells is required.

The appointment is for three years and the starting salary will be in the range of £20,000 - £22,000 per annum, depending on qualifications and experience.

**Applications should include a full CV, a list of publications, reprints of no more than three papers, and the names and addresses of three professional referees who can be contacted prior to interview. Please quote job reference: PNAC/801/13, and e-mail to: [recruit@mrc-lmb.cam.ac.uk](mailto:recruit@mrc-lmb.cam.ac.uk) or post to: Kelly Andrews, Personnel Assistant, MRC Centre, Hills Road, Cambridge CB2 2QH.**

**Applications from overseas are welcome.**

**Closing date: 22 October 2001.**

*'Leading Science for Better Health'*  
The Medical Research Council is an  
Equal Opportunities Employer and  
operates a strict no smoking policy.



**EAST COAST CAREERS**

**NIH, National Cancer Institute  
Head of the Cancer Centers Program**  
NCI-01-3166

Opening Date: 08/29/2001 Closing Date: 10/15/2001

The National Cancer Institute seeks a Chief for its extramural Cancer Centers Branch. This position oversees the strategic planning and development and implementation of a network of basic, clinical and comprehensive cancer centers throughout the Nation. The Program utilizes large Cancer Center Support Grants (CCSGs) awarded to major academic and free-standing domestic research institutions to support leadership responsible for creating and sustaining multi-disciplinary, interactive research environments; pilot funds for developing new research projects and technologies; and funds for infrastructure and resources essential to progress in the basic, clinical, prevention and control, population and behavioral sciences. NCI Cancer Centers must have the authority and institutional support to mobilize and integrate all of the scientists who can contribute to progress in cancer research regardless of their school, departmental/organizational affiliation within the institution. The staff of the Program work with leadership of institutions to help them plan for new cancer centers through the use of planning grants or strengthening existing cancer centers supported by CCSGs often through the use of strategic supplemental funding. Staff also work closely with NCI Divisions of Cancer Biology, Cancer Prevention, Cancer Control and Population Sciences and Treatment and Diagnosis to ensure that cancer centers are meeting the high priority needs identified by these Divisions and the various scientific advisory groups serving the NCI. The Program currently manages approximately \$200 million in CCSGs, Planning Grants and strategic supplements.

**SALARY RANGE AND BENEFITS:** Salary ranges from \$87,864 to \$114,224 per annum (includes locality pay) under Title 5. Candidates may also be considered under Title 42, Excepted Service, as an Expert (must possess a Ph.D., M.D., etc.). Under T42 salary may be negotiated up to \$150,000 per annum. Benefits include life and health insurance, retirement plan, thrift savings plan, the accrual of annual and sick leave, and free parking.

**APPLICATION PROCEDURES:** U.S. citizenship is required. The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruiting bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1948 for NCI-01-3166. You will be prompted for your fax machine number. You may also obtain the recruiting bulletin at this Web address: [www.usajobs.opm.gov](http://www.usajobs.opm.gov) OR [www.careerhere.nih.gov](http://www.careerhere.nih.gov). If you have any questions on application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812. Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form, on or before the closing date to:

**NATIONAL INSTITUTES OF HEALTH  
NATIONAL CANCER INSTITUTE  
HUMAN RESOURCE AND CONSULTING  
BRANCH  
6120 Executive Boulevard, MSC 7211  
Executive Plaza South, Suite 519, Rockville,  
MD 20852**

**NIH IS AN EQUAL OPPORTUNITY  
EMPLOYER.**

**EAST COAST CAREERS**

**McGowan Institute for Regenerative Medicine**



The University of Pittsburgh and UPMC Health System have established the McGowan Institute for Regenerative Medicine (MIRM). The MIRM is serving as a single base of operations for the university's leading scientists, engineers and clinical faculty working to develop tissue engineering, cellular therapies, biosurgery, and artificial & biohybrid organ devices. MIRM is devising innovative clinical protocols as well as pursuing rapid commercial transfer of its technologies related to regenerative medicine.

The MIRM is recruiting faculty with expertise in stem cells, cellular therapy, or tissue engineering. Primary areas of interest for the candidates can be from any discipline but should focus on cellular therapy and/or tissue engineering. The Institute seeks individuals interested in translating this expertise as part of a larger effort to address a variety of tissue and organ insufficiencies. Emphasis on liver regeneration, wound healing or nervous system injury or degeneration are particularly encouraged. Priority will be given to individuals who have worked with animal disease models.

Applicants must have a Ph.D. and/or M.D. degree, with relevant postdoctoral or other research experience.

The MIRM provides excellent research support facilities and the potential to work within one of the nation's top ten NIH-funded clinical research centers.

Applications will be accepted until March 1, 2002. Candidates should submit their CV, research interests and three references to:

**MIRM Search Committee  
McGowan Institute for Regenerative Medicine  
3550 Terrace Street  
Suite 401 Scaife Hall  
Pittsburgh, PA 15261**

*The University of Pittsburgh is an Affirmative Action, Equal Opportunity Institution*



**Cancer Research /  
Faculty Position  
University of Oklahoma  
College of Medicine**

The Department of Cell Biology is seeking an innovative cancer researcher for a tenure-track faculty position available at the Assistant, Associate or Full Professor level. The successful applicant will become part of the developing Cancer Center at OUHSC and a member of a rapidly growing department. The position provides a strong, interactive research environment that includes faculty of the basic science departments within the medical school, six allied health colleges and the Oklahoma Medical Research Foundation. Limited teaching in the Graduate and Medical School will be required. Candidates must have a Ph.D. or M.D. and will be expected to provide evidence of ability to develop a vigorous, grant-funded research program. High-quality research space, a competitive salary and an attractive start-up package are available.

Submit Curriculum Vitae, a statement of research interests and three letters of reference to: Dr. Marie H. Hanigan, Search Committee Chair, Department of Cell Biology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK, 73190. Visit our web site at [http://w3.ouhsc.edu/cell\\_biology/](http://w3.ouhsc.edu/cell_biology/).

*OUHSC is an Equal Opportunity/  
Affirmative Action Employer.*



**Dalton  
Cardiovascular  
Research Center**

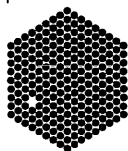
**Postdoctoral Fellows**

The Dalton Cardiovascular Research Center seeks five postdoctoral fellows to join the collaborative Neurohumoral Control of the Circulation Research Group. Investigators include:

**J. Thomas Cunningham, PhD  
Eileen M. Hassler, PhD  
Meredith Hay, PhD  
Cheryl M. Heesch, PhD  
Elmer M. Price, PhD  
James C. Schadt, PhD**

Current research focuses on: brain mechanisms related to body fluid homeostasis and cardiovascular regulation, hypertension, hormonal control of blood pressure, cardiovascular neurobiology, central nervous system effects of ovarian hormones and progesterone metabolites on cardiovascular regulation, effects of exercise training and deconditioning on neurohumoral regulation, and the molecular biology of membrane transporters.

The Dalton Cardiovascular Research Center is a world leader in cardiovascular research located on the campus of the University of Missouri-Columbia. Interested candidates should contact Eileen M. Hassler at 573-882-6125 or [HasslerE@missouri.edu](mailto:HasslerE@missouri.edu)



**EMBL**

**Research Programme in Mouse Biology  
Monterotondo (Italy)**

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme in Mouse Biology at Monterotondo (Italy) has the following vacancy:

**GROUP LEADER (ref. 01/119)  
Research Programme in Mouse Biology  
at Monterotondo (Italy)**

We are interested in outstanding candidates who focus on the mouse to address important questions in cell and developmental biology, neurobiology, immunology, stem cell biology or aging; functional genomics and models of human disease are topics of special interest. The selected candidate will hold a standard EMBL Group Leader appointment initially for 5 years with the possibility of an extension for another 4 years. He/she will also hold an associate appointment in the EMBL Headquarters Laboratory in Heidelberg, which includes groups working on vertebrate gene expression, cell biology and development.

The EMBL Research Programme in Mouse Biology is situated on the Campus Adriano Buzzati-Traverso at Monterotondo (20km north of Rome) next to the European Mutant Mouse Archive (EMMA), the Institute of Cell Biology of the Consiglio Nazionale delle Ricerche (CNR) and a unit of the International Centre for Genetic Engineering and Biotechnology. The current research interests of the Mouse Biology Programme include cardiovascular and neuromuscular development, aging and disease (N. Rosenthal, Programme Coordinator), actin cytoskeletal dynamics and related pathologies (W. Witke), cell signalling in the CNS (L. Minichiello), control of cell growth and differentiation by C/EBP transcription factors (C. Nerlov), and NF- $\kappa$ B function in development and disease (M. Pasparakis).

The Mouse Biology Programme offers in-house transgenic and knockout core services, conditional mutagenesis models, and access to the full spectrum of research facilities available at the EMBL Headquarters (Heidelberg), the EBI and the structural biology outstations at Hamburg and Grenoble. The Programme is also participating in a pan-European initiative to coordinate screening and characterization of novel mouse strains and mutants.

EMBL offers a highly collaborative international culture. It is committed to fostering top quality, interdisciplinary research by promoting an exciting and stimulating research environment consisting of young independent research groups with access to outstanding graduates students and postdoctoral fellows. The Laboratory provides financial help in relocating families and additional benefits.

Informal enquiries can be made directly to Dr. Nadia Rosenthal, tel: +39 06 90091 285, fax +39 06 90091 272, [rosenthal@embl-monterotondo.it](mailto:rosenthal@embl-monterotondo.it)

Closing date for applications: 31 October, 2001. The appointment will be available in the spring of 2002.

Applicants should submit a curriculum vitae, quoting reference no. 01/119, with a concise description of research interests and future plans, and should arrange for three letters of recommendation to be sent to:

**The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555.  
email: [jobs@embl-heidelberg.de](mailto:jobs@embl-heidelberg.de)**



## POSITIONS OPEN

### CHAIR Department of Ocean, Earth, and Atmospheric Sciences Old Dominion University

Old Dominion University invites applications and nominations for the position of Chair, Department of Ocean, Earth, and Atmospheric Sciences, within the College of Sciences. The Department seeks a senior scholar with demonstrated excellence in research, teaching, and administration. An earned Doctorate in oceanography, Earth, or atmospheric science or a related discipline and effective communication skills are required. The appointment will be at rank of **FULL PROFESSOR** with a competitive salary. The position will be available in January 2002.

Located in Norfolk, Virginia, Old Dominion (website: <http://www.odu.edu>) is a state-supported, research-intensive university enrolling approximately 19,000 including 6,000 graduate students. There are currently 25 full-time faculty members, six research faculty members, six Postdoctoral Associates, and 23 staff members in the Department, which grants M.S. and Ph.D. degrees in oceanography, an M.S. degree in geology, and a B.S. degree in Earth and ocean sciences. There are 43 graduate students and 100 undergraduate majors. The Commonwealth Center for Coastal Physical Oceanography (CCPO) is a part of the Department. The Department has a substantial endowment and maintains a 65-foot research vessel, the R/V Linwood Holton, with a new research vessel scheduled for delivery in June 2002.

The Chair's responsibilities will include strong leadership and promotion of the Department's scientific goals in state, national, and international arenas. The Chair also has the primary responsibility for the development of quality programs in instruction, research, and professional service within the Department.

Nominations and applications in the form of a letter of interest, curriculum vitae, and names of three references should be sent to: **OEAS Search Committee, Office of the Dean, College of Sciences, Old Dominion University, Norfolk, VA 23529. Telephone: 757-683-3274.** For additional information, contact: **Andrew Gordon, Chair of the Search Committee; e-mail: agordon@odu.edu; Telephone: 757-683-3595.** The review of applications will begin on October 15, 2001, and continue until the position is filled. *Old Dominion University is an Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.*

### FACULTY POSITIONS

The Department of Biological Sciences, University of Cincinnati, announces two tenure-track positions to be filled at the **ASSISTANT** or **ASSOCIATE PROFESSOR** rank by September 2002.

**Integrative Biologist.** We seek an individual using quantitative and/or molecular approaches to integrate various biological subdisciplines such as (but not restricted to) genetics, physiology, or neurobiology with behavior, ecology, or evolution.

**Plant Biologist.** We seek an individual in the area of plant biology with special interest in applicants using molecular approaches to investigate developmental, evolutionary, ecological, and/or conservation issues.

These individuals are expected to develop rigorous, externally funded research programs and to participate in training of graduate students (M.S. and Ph.D.). Teaching duties may include participation in undergraduate/graduate courses in the area of ecology/evolutionary biology, cellular and molecular biology, and the candidate's specialty. Applicants must have a Ph.D. or equivalent degree; postdoctoral experience will be advantageous. Applicants should submit curriculum vitae; statement of research and teaching interests; and three letters of recommendation by October 31, 2001, to: **Integrative Biologist Search Committee or Plant Biologist Search Committee, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006.** *The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.*

## POSITIONS OPEN

### CHAIR, DEPARTMENT OF PATHOLOGY University of North Dakota School of Medicine and Health Sciences

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of Chair in the Department of Pathology. We seek an outstanding Medical Scientist with a strong research record in pathology who has a proven ability to obtain extramural support. All appropriate areas of research will be considered, although research in the neurosciences or oncology would complement existing programs.

The Chair will oversee a department of 12 faculty members. The successful candidate will be expected to broaden and strengthen research within the Department and to participate in medical, graduate, and allied health education and therefore must be committed to excellence in teaching and research. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties.

This position does not include an active clinical pathology practice, the focus being on teaching, research, and administration. The Department is heavily involved in the design and implementation of undergraduate medical education. The Department presently directs both graduate and undergraduate programs in clinical laboratory science including a distance education modality and the Cytotechnology program. The new Chair may elect whether or not to continue to direct these programs. Further information is available at website: <http://www.med.und.nodak.edu>.

Review of applications will begin immediately and the search will remain open until the position is filled. Applicants should submit detailed curriculum vitae; statement that addresses administrative philosophy, research goals, and teaching interests; and the names and addresses of three references to:

**James E. Mitchell, M.D.**  
**Professor and Chair, Department of Neuroscience**  
**Chair of the Search Committee**  
**University of North Dakota**  
**School of Medicine and Health Sciences**  
**1919 Elm Street North**  
**Fargo, ND 58103**  
**E-mail: mitchell@medicine.nodak.edu**

Other sources of information on various aspects of the position include other members of the Search Committee. Regarding basic research at UNDSOM and HS, contact: **Manuchair Ebadi, Ph.D., Associate Dean for Research (e-mail: mebadi@medicine.nodak.edu);** **Ed Carlson, Ph.D., Professor and Chair of Anatomy and Cell Biology (e-mail: ecarlson@medicine.nodak.edu);** or **Richard Vari, Ph.D., Assistant Dean for Science in Medicine Education (e-mail: rdvari@medicine.nodak.edu).** Regarding educational programs, contact: **Robert Rubeck, Ph.D., Associate Dean, Office of Academic Affairs and Information Resources (e-mail: rrubeck@medicine.nodak.edu).** Regarding the Pathology Department, contact: **Mary Neboulski-Banman, Instructor in Pathology (e-mail: mbanman@medicine.nodak.edu).**

*The University of North Dakota is an Equal Opportunity/Affirmative Action Institution.*

### ANIMAL BIOLOGIST Minnesota State University Mankato

The Department of Biological Sciences invites applications for a tenure-track **ASSISTANT PROFESSOR** position. A Ph.D. related to animal biology is required. Duties include teaching undergraduate and graduate courses, serving on departmental committees, and developing a research program that involves both undergraduate and graduate students. Position begins August 19, 2002. To obtain the complete Notice of Vacancy, position description, and application procedures, select category job opportunities at website: <http://www.mnsu.edu> or contact: **Department of Biological Sciences; Telephone: 507-389-2786.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### FACULTY POSITIONS Molecular Biochemistry/Biophysics/ Biology/Cell Biology/Genetics Department of Biochemistry and Biophysics Texas A&M University

The Department of Biochemistry and Biophysics at Texas A&M University invites applications for two tenure-track positions. Candidates whose research interests address fundamental problems in any area of molecular biochemistry/biophysics/biology/cell biology/genetics are invited to apply. The appointments are likely to be at the **ASSISTANT PROFESSOR** level but inquiries from more senior candidates are encouraged. Successful candidates will be expected to establish an active research program and to participate in the teaching missions of the Department. These positions offer a chance to join a department with an energetic and interdisciplinary faculty, an excellent graduate program, and ample opportunities for collaborations with enthusiastic colleagues in this and other departments. With a student population of over 40,000, Texas A&M is an outstanding university centrally located between Dallas, Austin, and Houston. For more information about the Department, see website: <http://biochemistry.tamu.edu/>.

Applicants should send curriculum vitae, reprints of up to four significant publications, statement of future research and teaching interests, and arrange to have three letters of reference sent to:

**Faculty Search Committee 2001, Chair**  
**Department of Biochemistry and Biophysics**  
**Texas A&M University**  
**2128 TAMU**  
**College Station, TX 77843-2128**

Review of applications will begin November 1, 2001, and continue until the positions are filled. *Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.* To request ADA accommodations, please contact us at Telephone: 979-845-6835.

### FACULTY POSITION ANIMAL DEVELOPMENTAL BIOLOGY Indiana University, Bloomington

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** working in the area of animal development. We seek candidates whose research focuses on the evolution of developmental strategies and/or the development of model organisms such as *Drosophila*, *C. elegans*, zebrafish, and mouse.

The position is part of a significant expansion of IU-Bloomington's life sciences. The expansion includes construction of two major research buildings; creation of a new interdepartmental program in biochemistry and biophysics; establishment of the Center for Genomics and Bioinformatics; and numerous recent hirings in the areas of microbiology, biochemistry, cell and developmental biology, molecular evolution, and ecology. One consequence of this expansion is that we welcome applications from two-career couples.

The successful candidate will be provided with a competitive start-up package and will be expected to establish a vigorous, externally funded research program and to participate in teaching undergraduate and graduate courses. For more information about the Biology Department and for links to information about the campus and the Bloomington community, see website: <http://www.bio.indiana.edu>.

Candidates should send curriculum vitae; a statement of research (past, present, and planned); representative publications; and arrange to have three (or more) letters of recommendation sent to: **Professor Susan Strome, Animal Development Faculty Search, Department of Biology, Indiana University, 1001 East Third Street, Bloomington, IN 47405-3700.** Review of applications will begin November 15, 2001, and will continue until suitable candidates are identified. *Indiana University is an Affirmative Action/Equal Opportunity Employer. Women, minority candidates, and couples are encouraged to apply.*

## ASSISTANT PROFESSOR MICROBIOLOGY

The Section of Microbiology within the Division of Biological Sciences, University of California, Davis, invites applications for a tenure-track Assistant Professor position. A Ph.D. (or equivalent) is required and postdoctoral experience is highly desirable. Candidates must have an outstanding record of achievement in research and will be expected to develop a strong research program in microbiology. Areas that we seek to strengthen in this broadly based search are: microbial ecology/environmental microbiology; microbial evolution; molecular microbiology, with a focus on any tractable eukaryotic, bacterial or archaeal systems. The successful candidate will be expected to teach and advise at the undergraduate and graduate levels. Applicants should submit (1) a curriculum vitae, (2) copies of no more than five published and in-press papers, (3) a statement of current and proposed research, (4) a statement of teaching experience and/or interests, and (5) arrange to have three letters of recommendation sent to: **Dr. Michele Igo, Chair, Search Committee, Section of Microbiology, University of California, Davis, One Shields Avenue, Davis, CA 95616-8665.** Closing date: Open until filled, but all application materials, including letters of recommendation, must be received by November 8, 2001 to be assured full consideration. This position in Biological Sciences may be supplemented by an appointment in the Agricultural Experiment Station, providing an 11-month per year salary.

*The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.*



## MAYO CLINIC POSTDOCTORAL POSITIONS

Two postdoctoral positions available for highly motivated Ph.D.s:

- 1) Cancer vaccine development involving pre-clinical mouse models of spontaneous mammary gland cancer and clinical trials. Experience in immunology is essential.
- 2) Function of MUC1 mucin in breast cancer development and immune regulation, using transgenic and KO mouse models. Expertise in signal transduction, cell and molecular biology will be an asset.

Mayo Clinic Scottsdale is part of the integrated Mayo Foundation.

Applications including a CV, summary of past accomplishments and the names of three references should be sent to:

**Dr. Sandra J. Gendler**  
Mayo Clinic Scottsdale  
S.C. Johnson Medical Research Building  
13400 E. Shea Boulevard  
Scottsdale, Arizona 85259  
e-mail: [williams.carol2@mayo.edu](mailto:williams.carol2@mayo.edu)

*Mayo Foundation is an affirmative action and equal opportunity employer and educator.*

## GLOBAL OPPORTUNITIES



# Aurigene

## Discovery Technologies

Aurigene is a global discovery support organization that helps accelerate drug discovery by providing services in Proteomics, Structural biology and Structure-based-drug-design, specifically addressing bottlenecks in the drug discovery process. The company, which has been promoted by Dr. Reddy's Laboratories, will build strategic alliances and R&D partnerships with biotechnology and pharmaceutical companies in emerging technology areas relating to drug discovery. Aurigene's research facility is located in Bangalore, the hub of India's high tech sector.

We are now looking to bring in a team of globally distinctive scientists to provide leadership for the new company.

We seek two

## Chief Scientific Officers

to lead R&D operations in Medicinal Chemistry and Structural Biology.

The CSO will be part of the top management team responsible for:

- \* Strategic decision-making on research, technologies and investments, including licensing
- \* Establishment of discovery collaborations
- \* Management of R&D operations, including organization building and development
- \* Overall responsibility for Project management and Client Relationship Management

The candidate should have a PhD in Structural Biology/ Protein chemistry or Medicinal Chemistry and 3 - 5 years experience leading a mid-sized research organization or large laboratory group. The person should have a track record of accomplishments and publications that demonstrate the successful application of new technologies in drug discovery. He / she should be well networked in academia and industry and should have the leadership skills necessary to provide direction to an interdisciplinary team. As part of the founding team of the company, the CSO will be responsible for creating a truly distinctive Discovery Support Organization that applies cutting edge automation and computational technologies to discovery. He/she will lead a talented and diverse group of scientists recruited through a global search and recruitment process.

Talent is the keystone of our excellence. We are committed to providing an environment that nurtures innovation. The work environment will combine state-of-the-art technology with a culture that promotes independence and team spirit. We offer a competitive and flexible remuneration package, including stock options, relocation assistance and other benefits.

## Project Leaders / Senior Scientists

Protein Services:

We are looking for people with MS+8-10 years or PhD+5-8 years in Molecular biology and Protein chemistry having experience with a variety of expression systems and protein families. Industrial experience leading a team of researchers and working closely with structural biologists is desirable. The work will involve designing and testing protocols for protein expression and purification, statistical process design and analysis and characterization of a wide variety of proteins. Experience in protein crystallization is desirable. We seek candidates with understanding of the latest technologies and good problem solving skills.

**Structural biology and Crystallography :**  
Candidates should have MS+ 6-8 years or PhD +2-3 years in protein crystallization, including co-crystallization with ligands. Experience of crystal structure analysis is preferred.

**Computational Biology and Computational Chemistry :**

We seek people with skills in different areas of computational biology and chemistry including model building, homology modeling, virtual ligand screening and docking and database development and mining. The candidates should have experience using in-silico methods for evaluating ADMET properties for lead optimization.

**Medicinal Chemistry and Biological Assays :**  
We have multiple positions open in Lead optimization. We seek people with good medicinal chemistry skills with experience in developing and implementing strategies for compound design, SAR and analog synthesis. We also need candidates for running a panel of in-vitro and in-vivo assays for supporting Lead Optimization. The candidates must have a good grounding in the principles of Rational Drug Design.

Please e-mail resumes to : [opportunities\\_s@aurigene.com](mailto:opportunities_s@aurigene.com)

Mail : Swami Subramaniam, Dr. Reddy's Laboratories,

7-1-27, Ameerpet, Hyderabad- 500016, India.

Phone: ++91 40 373 1946, ext- 340 / 203, Fax: ++91 40 374 5807.

## POSITIONS OPEN



### TENURE-TRACK FACULTY POSITIONS University of Pittsburgh School of Medicine Department of Pharmacology

University of Pittsburgh School of Medicine has committed to enhance further its basic research faculty. We seek two research-oriented individuals to join our well-funded faculty as **ASSISTANT** or **ASSOCIATE PROFESSORS**. The desired candidates will have an M.D. or Ph.D. from any subdiscipline of the Life Sciences including pharmacology, biochemistry, molecular biology, and neurobiology. We are especially interested in individuals with outstanding communication skills who will complement our existing strengths in ion channels, G protein-mediated signaling, cell death, drug discovery, and drug resistance. Candidates using structural approaches are encouraged to apply.

Successful candidates will be expected to develop outstanding independent research programs. Very attractive start-up packages have been committed for the successful candidates. Interested applicants should provide a one-page statement on their proposed research, curriculum vitae, and the names and contact information of three professional references. The application deadline is November 1, 2001. Application should be sent to:

Faculty Search Committee  
Department of Pharmacology  
University of Pittsburgh, School of Medicine  
Chair, Search Committee  
W1340 Biomedical Science Tower  
Pittsburgh, PA 15261

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

### BIOLOGY FACULTY CELL BIOLOGIST

Tenure-track position available beginning either January 2002 or August 2002 at the **ASSISTANT PROFESSOR** rank.

Duties include teaching an upper-level course in cell biology. Other teaching responsibilities will include introductory biology courses and may include development or an advanced course in the field of expertise.

Ph.D. in biology or related area is required. Effective teaching is a primary expectation, and faculty are also expected to establish a productive research program involving undergraduate students and to participate in departmental and institutional governance. It is desirable but not required for the successful candidate to start January 2002. The specific area of research is open but preference will be given to candidates with backgrounds that enhance program opportunities in the newly formed College of Health, Environment, and Sciences at the University. Successful performance in an on-campus interview, including a teaching session, is required. Perceived ability to work productively with students and colleagues required.

Send letter of application; résumé; statement on academic philosophy/goals; graduate and undergraduate transcripts (official transcripts will be necessary before hiring); and the names, addresses, and telephone numbers of three professional references to:

Cell Biologist Search Chairperson  
Biology Department  
Slippery Rock University  
Slippery Rock, PA 16057  
FAX: 724-738-4782  
E-mail: jerry.chmielewski@sru.edu  
Website: <http://www.sru.edu>

The deadline for receipt of application is October 1, 2001. Slippery Rock University of Pennsylvania is a member of the State System of Higher Education and is an Affirmative Action/Equal Opportunity Employer. It encourages minorities, women, veterans, and persons with disabilities to apply.

## POSITIONS OPEN

### PHYSICAL OR BIOLOGICAL LIMNOLOGY/OCEANOGRAPHY

The Large Lakes Observatory of the University of Minnesota Duluth (LLO) seeks a new faculty member in physical or biological limnology/oceanography to conduct research on large lakes worldwide. Expertise in any subfield of physical limnology/oceanography, in physical-biological coupling, or in plankton dynamics is desired with strong field research involvement. The position may be filled at any level depending on the qualifications of the candidate. An **ASSOCIATE** or **FULL PROFESSOR** appointment may be as Associate Director with a substantial role in shaping the future of LLO in the coming decade. Applicants must possess a Ph.D. in either the physical or biological aquatic sciences or related field at the time of the appointment. A year or more of postdoctoral experience is preferred at the Assistant Professor level, and a strong history of research and external grant support is expected at the Associate/Full Professor level. This is a tenure-track position with ninth-month salary. As with all LLO faculty, this position will carry a 50% appointment and tenure track in the appropriate science department (e.g., Physics or Biology). The teaching and service loads in the tenure department are commensurate with the 50% appointment. The applicant will be expected to teach courses and advise student research at the undergraduate and graduate levels. LLO (website: <http://www.d.umn.edu/llo>) is global in outlook and activity with research in progress on lakes in East Africa, Asia, the United States, and Canada as well as in the oceans. LLO is part of an established program in limnology at the University of Minnesota including the Department of Biology and the Center for Water and Environment, Duluth; the Limnological Research Center; the Department of Ecology, Evolution, and Behavior; and the St. Anthony Falls Hydraulics Laboratory at its Twin Cities campus. Submit letter of interest, curriculum vitae, and the names and contact information of five references to: **Professor Thomas C. Johnson, Chair, LLO Faculty Search Committee, Large Lakes Observatory, University of Minnesota Duluth, 10 University Drive, Duluth, MN 55812**. The Search Committee will begin to review complete applications on 30 October 2001 and will accept applications until the position is filled. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

### ASSISTANT OR ASSOCIATE PROFESSOR POSITION AVAILABLE

The University of Puerto Rico  
School of Medicine

#### Department of Physiology and Biophysics

The School of Medicine of the University of Puerto Rico invites applications from outstanding candidates with Ph.D. or equivalent degrees (M.D. or M.D./Ph.D.) and postdoctoral experience for a tenure-track Assistant or Associate Professor position with expertise in basic research in respiratory physiology or a related area. Of particular interest are candidates who have or will develop independent research programs using molecular biology approaches to study physiological processes in tissues and whole animals. Candidates should have a clear record of scientific excellence and must hold or be competitive for external research funding. The successful individual will be expected to have an ongoing independent research program and to participate in teaching of respiratory physiology to graduate, dental, and medical students. The Department currently has research programs in the areas of cardiovascular biology, cellular and molecular physiology, neurobiology, neuroendocrinology, and physiology of exercise. Send curriculum vitae and names and addresses of three references to: **Dr. Nelson Escobales, Chairman, Physiology Department, University of Puerto Rico School of Medicine, GPO Box 365067, San Juan, PR 00936-5067 U.S.A.** The selected candidate should be available to start by January 2002. Applications will be accepted until October 30, 2001.

*The University of Puerto Rico is an Equal Employment Opportunity Employer; Minorities/Women/Veterans/Disabled.*

## POSITIONS OPEN

### CENTER FOR VECTOR-BORNE DISEASES (CVEC)

School of Veterinary Medicine  
University of California, Davis

Faculty position in epidemiology. **ASSISTANT PROFESSOR** of epidemiology/**ASSISTANT EPIDEMIOLOGIST** at the University of California Center for Vector-Borne Diseases (CVEC). Salary dependent on qualifications and experience. Ph.D. or equivalent required with advanced training in epidemiology. D.V.M. or M.D. desirable. Demonstrated aptitude/experience in teaching. Documented research record or potential to develop an independent research program in vector-borne disease epidemiology. Demonstrated ability or potential to obtain competitive extramural funds. Understanding and experience applying contemporary methods of experimental design and data analysis essential including spatial/GIS and temporal analyses. Excellent interpersonal skills.

To receive fullest consideration, applications must be received by October 1, 2001; position open until filled. Submit (1) letter of intent outlining special interest in position, overall related qualifications and experience, and career goals; (2) curriculum vitae; (3) dissertation or copies of up to three relevant publications, and (4) names and addresses of three professional references to: **John D. Edman, Center for Vector-Borne Diseases, School of Veterinary Medicine, University of California, Davis, CA 95616**. E-mail: [jdedman@ucdavis.edu](mailto:jdedman@ucdavis.edu). *Affirmative Action/Equal Opportunity Employer.*

Villanova University, Department of Biology: Tenure-track **ASSISTANT PROFESSOR** position beginning August 2002. We seek an individual who will teach in departmental offerings that include undergraduate cell and molecular biology, develop a Master's-level course in immunology, and has research interests in cellular/molecular immunology. Successful candidates will develop an active research program involving undergraduate and graduate thesis mentorship and seek external funding. Ph.D. and postdoctoral experience required. See website: [www.bio.villanova.edu](http://www.bio.villanova.edu) for more information. Please submit an application letter, curriculum vitae, description of teaching philosophy and research plans, official undergraduate and graduate transcripts, and have three letters of reference sent to: **Chair, Search Committee, Department of Biology, Villanova University, Villanova, PA 19085**. Consideration of applications begins December 1, 2001. Villanova University is a Roman Catholic university sponsored by the Augustinian order. *An Affirmative Action/Equal Employment Opportunity Employer, Villanova seeks a diverse faculty committed to scholarship, service, and especially teaching and who understand, respect, and can contribute to the University's mission and values.*

### ASSISTANT PROFESSOR OF PLANT PATHOLOGY

Montana State University, Bozeman

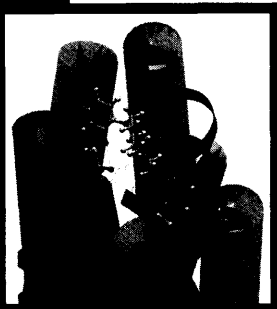
Plant Sciences and Plant Pathology Department seeks Assistant Professor of plant pathology; 12-month, tenure-track position. Responsibilities include developing a nationally competitive cereal pathology research program, classroom teaching, and supervision of graduate students. Complete position announcement and application procedure may be seen at website: <http://www.montana.edu/level2/jobs.html> or contact: **Irene Decker, Plant Sciences and Plant Pathology Department, 119 ABS Facility, Bozeman, MT 59717-3150**. Telephone: 406-994-5171; FAX: 406-994-7600; e-mail: [decker@montana.edu](mailto:decker@montana.edu). Screening begins December 21, 2001; start date July 1, 2002. *Americans With Disabilities Act/Equal Opportunity/Affirmative Action/Veterans Preference.*

# the future happens here first



Bioscience

At **Roche Bioscience**, we are committed to innovation in the discovery and early clinical development of human pharmaceuticals. Our scientists focus on the identification of novel medicines for the treatment of arthritis, osteoporosis, respiratory and viral diseases, and genitourinary and central nervous system disorders. At our park-like campus, located in Palo Alto, California, you will find focused, dynamic, multidisciplinary teams equipped with the cutting-edge technologies necessary to achieve success.



## Research Scientist I/II, Toxicology

You will be responsible for the safety evaluation program for our candidate drug molecules, which will involve the selection, design and reporting of toxicology studies for each program. You will act as the Study Director for in-house studies and the study monitor for studies at contract facilities. You will represent the toxicology function on multidisciplinary project teams. Using your high-level toxicology expertise, you will interact with professional colleagues and management to strategically define pre-clinical safety programs and design pre-clinical toxicology studies for new drug candidates. Requires a PhD or equivalent in Toxicology or related field and 2-6 years of postdoctoral experience in GLP toxicology (pharmaceutical industry or contract laboratory). Specialized coursework or experience in Immunology, Molecular Biology, and/or Virology is highly desired. Drug development experience is preferred. Excellent communication and computer skills are essential.

We offer a competitive compensation program which rewards employees for individual achievement as well as contribution to company objectives. Our comprehensive benefits include an on-site fitness center, generous vacation and holiday schedules, 401(k) and pension plans, and the opportunity for tuition assistance. Apply by sending your resume to [paloalto.hr\\_staffing@roche.com](mailto:paloalto.hr_staffing@roche.com) or to Roche Bioscience at 3401 Hillview Avenue, MS A2-HR, Palo Alto, CA 94304. As an equal opportunity employer, we are committed to workforce diversity. Visit our website at <http://paloalto.roche.com>.



## The University of Texas at Austin

### Faculty Positions in Chemical and Structural Biology The Institute for Cellular and Molecular Biology Department of Chemistry and Biochemistry

The Institute for Cellular and Molecular Biology and the Department of Chemistry and Biochemistry invite applications for tenure track faculty positions at a rank commensurate with experience. Researchers from all areas of Chemical and Structural Biology are welcome, but those with experience in X-ray crystallography are particularly encouraged to apply. The successful applicants will be expected to develop an aggressive research program, to participate in undergraduate and graduate education, and to contribute to a dynamic and interactive academic atmosphere. Chemical and Structural Biology are areas of emphasis within the new Institute for Cellular and Molecular Biology headed by Dr. Alan Lambowitz. Exceptional start-up packages are available. Austin is located in the Texas hill country and is widely recognized as one of America's most beautiful and livable cities.

Candidates should submit a current curriculum vitae and a summary of research experience and future goals, together with at least three letters of recommendation. To assure full consideration applications should be received by October 15, 2001. Material should be sent to:

**Dr. Jon Robertus**  
Chair of the Search Committee  
Department of Chemistry and Biochemistry  
The University of Texas at Austin  
Austin TX 78712

Homepages • <http://www.icmb.utexas.edu> • <http://www.cm.utexas.edu>

The University of Texas at Austin is an Equal Opportunity Employer.  
Qualified women and minorities are encouraged to apply.

### Assistant Professor/Assistant Plant Biologist (Postharvest Biology)

The College of Agricultural and Environmental Sciences at UC Davis invites applications for a tenure-track, Assistant Professor in postharvest biology of fruit and nut species in the Department of Pomology. The position will have a split teaching and research appointment with a portion of the research appointment funded by the Agricultural Experiment Station. UC Davis offers faculty appointees an exceptional research environment and the opportunity to teach highly motivated undergraduate and graduate students in one or more interdepartmental majors and graduate programs. The appointee will have responsibilities for teaching, advising, and research. Candidates must have a Ph.D. in an appropriate field and postdoctoral research experience. The College seeks a plant biologist to conduct fundamental research on the postharvest biology of California's fruit and nut crops. It is not necessary or expected that the candidate have direct research experience in postharvest biology, or with fruit and nut crops. Research opportunities exist in areas such as gene discovery, functional genomics, proteomics, metabolic biology and signal transduction, where fundamental research discoveries can be expected to lead to new technologies affecting nutritional and flavor quality, safety and/or pathology of fruits and nuts.

Applicants should submit a curriculum vitae, transcripts (if within five years of graduation), a statement of research and teaching experience, and the names and addresses of three to five references to: **V. Polito, Chair, Search Committee, Department of Pomology, One Shields Avenue, University of California, Davis, CA 95616-8683.** The position will remain open until filled, but to ensure consideration applications must be received by November 30, 2001. For additional information about the department visit our website: <http://pom.ucdavis.edu> or website: <http://fruitsandnuts.ucdavis.edu>.

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

## POSITIONS OPEN



### ANIMAL BEHAVIOR

The Department of Biology at Swarthmore College invites applications for a tenure-track position in non-primate animal behavior at the **ASSISTANT PROFESSOR** level beginning in September 2002. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. Postdoctoral research experience is desirable. We seek an experimentalist whose work emphasizes ecological and evolutionary questions, includes a strong field component, and encourages undergraduate participation. Teaching duties will include participation in a team-taught introductory biology course, a one-semester course in animal behavior with field component, and an advanced course/seminar with laboratory projects in the area of the applicant's interest. Persons who wish to apply for this position should submit curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. John B. Jenkins, Chair, Department of Biology, Swarthmore College, Swarthmore, PA 19081.** All materials must be received by 2 November 2001. *Swarthmore College is an Equal Opportunity Employer.*

### FACULTY POSITION CELL/DEVELOPMENTAL BIOLOGY Department of Biology University of Central Florida

The Department of Biology and the Molecular Biology Institute CD3 invite applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in any contemporary area of cell or developmental biology. Applicants at the Assistant Professor level must demonstrate outstanding potential to develop a well-funded, extramural research program. Applicants at the Associate Professor level should have established a funded research program. Candidates must have a Ph.D. in an appropriate discipline and postdoctoral experience. The successful candidate for this primarily research position will hold a joint appointment in CD3, hold a tenure-track position in the Department of Biology, and contribute to teaching in the Biomolecular Ph.D. program. The position includes a competitive start-up package and salary with excellent benefits. The University of Central Florida offers a rapidly growing research environment with modern facilities. All applicants should submit curriculum vitae, statement of research plans, and the names of three references to: **Dr. David T. Kuhn, Chair Cell/Development Search Committee, Department of Biology, 4000 Central Florida Boulevard, Orlando, FL 32816-2368.** Review of applications will begin October 19, 2001, and proceed until the position is filled. *The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Application materials (including transcripts) are public documents available for review upon request.*

**ASSISTANT PROFESSOR, neuroscience.** The Florida State University Department of Psychology, Program in Neuroscience, invites applications for a tenure-track position at the Assistant Professor level. Applicants in all areas of neuroscience are encouraged to apply. Some preference will be given to candidates with expertise that amplifies or complements existing strengths in development and neuroplasticity and sensory and regulatory processes. Candidates should demonstrate a strong commitment to undergraduate and graduate teaching and a potential for developing a funded, independent research program. Send curriculum vitae; a statement of research goals; and the names of three references by November 30, 2001, to: **Neuroscience Search Committee, Department of Psychology, Florida State University, Tallahassee, FL 32306-1270.** For information about the Department and the Neuroscience Program, see website: <http://www.psy.fsu.edu>. *Florida State University is an Equal Opportunity/Affirmative Action Employer committed to diversity in hiring and a Public Records Agency.*

## POSITIONS OPEN



### FACULTY POSITION CELL/DEVELOPMENTAL BIOLOGY Department of Biology University of Central Florida

The Department of Biology and the Molecular Biology Institute CD3 invite applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in any contemporary area of cell or developmental biology. Applicants at the Assistant Professor level must demonstrate outstanding potential to develop a well-funded, extramural research program. Applicants at the Associate Professor level should have established a funded research program. Candidates must have a Ph.D. in an appropriate discipline and postdoctoral experience. The successful candidate for this primarily research position will hold a joint appointment in CD3, hold a tenure-track position in the Department of Biology, and contribute to teaching in the Biomolecular Ph.D. program. The position includes a competitive start-up package and salary with excellent benefits. The University of Central Florida offers a rapidly growing research environment with modern facilities. All applicants should submit curriculum vitae, statement of research plans, and the names of three references to: **Dr. David T. Kuhn, Chair Cell/Development Search Committee, Department of Biology, 4000 Central Florida Boulevard, Orlando, FL 32816-2368.** Review of applications will begin October 19, 2001, and proceed until the position is filled. *The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Application materials (including transcripts) are public documents available for review upon request.*

### ASSISTANT PROFESSOR, BIOCHEMISTRY

California State University, Fresno, has a tenure-track opening in the Department of Chemistry for an Assistant Professor in biochemistry beginning August 2002. Applicants must have a Ph.D. in biochemistry or closely related field with postdoctoral research preferred. To apply, submit a letter of application, résumé, statement of research and teaching interests, transcripts from undergraduate and graduate institutions, and three letters of recommendation to: **Dr. Jose Sy, Committee Chair, Department of Chemistry, 2555 East San Ramon Avenue, SB 70, California State University, Fresno, Fresno, CA 93740-8034.** For further information, visit the Department website: <http://www.csufresno.edu/Chemistry> at October 22, 2001. Review of applicants will begin and will continue until the position is filled. *California State University, Fresno, is an Affirmative Action/Equal Opportunity Employer.*

University of Illinois at Chicago, Department of Chemistry, invites applications for a tenure-track **ASSISTANT PROFESSOR OF BIOCHEMISTRY** beginning fall 2002. Appointments at higher levels are possible in exceptional cases. The successful candidate will be expected to carry out a full and vigorous program of innovative research and to contribute to the teaching of graduate and undergraduate students. We will consider outstanding candidates in any area of biochemistry including chemical biology and structural biology. Please submit applications including curriculum vitae; list of publications; summary of past research; plan for future research; and letters of reference from three individuals who know the candidate's work well by November 1, 2001, to: **Wonhwa Cho, Chair, Biochemistry Search Committee, Department of Chemistry (M/C 111), The University of Illinois at Chicago, 845 West Taylor Street, Chicago, IL 60607-7061.** *UIC is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR Department of Pharmacology University of Washington Seattle, Washington

Applications are invited for a tenure-track appointment as an Assistant Professor in the Department of Pharmacology at the University of Washington School of Medicine. A Ph.D. or M.D. degree and at least two years of postdoctoral research experience are required. Individuals integrating structural and related approaches to studies of signal transduction are especially encouraged to apply. Additional information about the position and how to apply are available at the departmental website: <http://depts.washington.edu/phcol/>.

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

### THE UNIVERSITY OF CHICAGO INSTITUTE FOR MIND AND BIOLOGY Department of Psychology

The University of Chicago is seeking to fill several **FACULTY POSITIONS** in biopsychology. Our primary goal is to understand behavior and minds in relation to biological mechanisms. We construe biological mechanisms to include the endocrine and immune systems as well as the nervous system. Biopsychologists who study either animals or humans are encouraged to apply. We are open to a wide range of research areas and will ultimately select a group with diverse and complementary perspectives. Research areas include the reciprocal relations between psychological processes and biological systems with an emphasis on their evolution, development, or mediating mechanisms.

The University of Chicago has established an Institute for Mind and Biology and constructed a new biopsychology research facility to house these research efforts (website: <http://socialpsy.uchicago.edu/imb.htm>). This building includes research laboratories for both human and animal studies, fully accredited animal care facilities, offices, and rooms for equipment to be shared in common. Positions are open at both junior and senior levels. Evaluation of applicants will begin November 1, 2001, and will continue until all positions have been filled. The anticipated start date is fall 2002 but is flexible.

Applicants should submit curriculum vitae, a conceptual summary of research, and representative publications. In addition, junior candidates should have three letters of reference sent to: **Biopsychology Search Committee, c/o Gwen Stevenson, 5848 South University Avenue, Green Hall, Room 109, Chicago, IL 60637.**

**ASSISTANT PROFESSOR, inorganic chemistry.** The Department of Chemical Sciences, Bridgewater State College, Bridgewater, Massachusetts, invites applications for a full-time, tenure-track position beginning in August 2002. The successful candidate will have a strong commitment to undergraduate teaching (inorganic chemistry and introductory chemistry) and to developing a research program appropriate to an undergraduate setting (for more information on undergraduate research at Bridgewater State College, visit our website: <http://www.bridgew.edu/Academic/Honors/BUOP/>). A Ph.D. and postdoctoral experience in inorganic chemistry or a related area are required, as are excellent oral and written communication skills. Prior teaching experience is preferred. For consideration, submit a letter of interest, curriculum vitae, and three professional references to: **Office of Human Resources, Bridgewater State College, Bridgewater, MA 02325.** Review of complete applications will begin on October 29, 2001, and continue until position is filled. *Bridgewater State College is an Affirmative Action/Equal Opportunity Employer that actively seeks to increase the diversity of its workforce.*

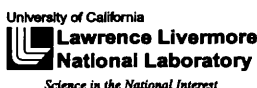
# Think **BIG.**

## **BIG Ideas Shaping the Future Postdoctoral Research Opportunities**

Lawrence Livermore National Laboratory (LLNL) has opportunities for Postdoctoral positions within its five University/Lab Institutes: the Center for Accelerator Mass Spectrometry, the Institute of Geophysics and Planetary Physics, the Institute for Laser Science and Applications, the Institute for Scientific Computing Research, and the Materials Research Institute. In these positions, postdocs will work on projects that advance science and technology by conducting cutting edge, publishable research to meet needs identified by one of LLNL's National Security Directorates. These are one-year term appointments, with the possibility of extensions to three years.

Candidates will do original research in one or more aspects of science that include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Laser Science, Astrophysics and Engineering. You may participate in experimental or theoretical work, and will have access to our extensive computing facilities, specialized laboratory facilities, and field equipment. It is anticipated that at the end of a successful appointment, candidates will be well positioned to apply for career positions within the sponsoring Directorate.

Refer to our web page <http://www.llnl.gov/urp/ppi/> for eligibility requirements, information on the Institutes and examples of research projects. To apply reference **Dept. AJSC9M1DO** and send a cover letter expressing your area of interest and resume to [urpids@llnl.gov](mailto:urpids@llnl.gov). U.S. Citizenship and the ability to obtain a Department of Energy clearance is required. Permanent residency does not meet this requirement. Applications will be accepted throughout the year until positions are filled. Lawrence Livermore National Laboratory is operated by the University of California for the National Nuclear Security Administration/Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.



For information about specific employment opportunities, visit our web site at:

**[www.llnl.gov/jobs](http://www.llnl.gov/jobs)**

**THE UNIVERSITY of  
EDINBURGH**  
**CENTRE FOR GENOME  
RESEARCH**



## **OPPORTUNITIES FOR RESEARCH INTO STEM CELL POTENCY**

The CGR is a world-leading centre for multi-disciplinary research in mammalian stem cell biology. Our mission is to acquire the basic knowledge and understanding of stem cells and cell specification required for development of regenerative therapies to treat human disease and injury (<http://helios.bto.ed.ac.uk/cgr/>). Due to the award of major funding from the Biotechnology and Biological Sciences Research Council, outstanding candidates are sought for the following positions:

### **BIOINFORMATICS – RESEARCH GROUP LEADER**

You will establish a new bioinformatics group in the Centre to underpin applications of post-genomic and proteomic technologies to stem cell biology. You will be expected to interact extensively with other groups in the Centre and to initiate new projects. This post can convert to a University lectureship at the end of the 5-year grant funding.

*Salary scale: £24,193 - £32,215 p.a. Please quote REF: 310762SI.*

### **EXPRESSION PROFILING – POSTDOCTORAL FELLOW**

You will undertake comparative expression profiling studies on embryonic and neural stem cells and differentiated progeny with the aim of delineating the essential molecular attributes of a stem cell.

*Salary scale: £17,451 - £26,229 p.a. Please quote REF: 310763SI.*

### **MANIPULATION OF STEM CELL GENE EXPRESSION – POSTDOCTORAL FELLOW AND GRADUATE RESEARCH ASSOCIATE**

You will design and implement approaches for achieving conditional expression/repression of transcriptional master genes in stem cells with the aim of controlling and directing differentiation.

*Postdoctoral salary scale: £17,451 - £26,229 p.a.*

*Please quote REF: 310764SI.*

*Research Associate salary scale: £17,451 - £19,485 p.a.*

*Please quote REF: 310765SI.*

### **NUCLEAR REPROGRAMMING – GRADUATE RESEARCH ASSOCIATE**

You will join a team using nuclear transfer into mouse oocytes to investigate basic aspects of genomic reprogramming. A demonstrated aptitude for embryo manipulation is essential, but specific training will be provided in nuclear transfer methodology.

*Salary scale: £17,451 - £19,485 p.a. Please quote REF: 310766SI.*

*All posts are funded for up to 5 years.*

*Closing date for all posts: 26 October 2001.*

**For further particulars and an application pack visit  
our web site or telephone the recruitment line on  
0131 650 2511.**

***Committed to Equality of Opportunity.***

**[www.jobs.ed.ac.uk](http://www.jobs.ed.ac.uk)**



## POSITIONS OPEN

### SENIOR FACULTY POSITION CARDIOPULMONARY/CNS PATHOPHYSIOLOGY AND SIGNALING The University of Alabama at Birmingham

The University of Alabama at Birmingham invites applications for a tenured senior faculty position in the Department of Anesthesiology. The minimum requirements are that the candidate hold the Ph.D. and/or M.D. degree and be an established, independent Investigator. This full-time position also includes teaching, graduate student training, and clinical care/translational research opportunities depending on the candidate's skills. Rank (**ASSOCIATE PROFESSOR** or **PROFESSOR**) will be determined by experience and accomplishments. Salary and benefits are highly competitive with an excellent start-up package for salary, personnel, and equipment. Laboratory, core facility, and animal care space will be located in a new five-story research building housing Investigators studying lung, vascular and CNS pathobiology, mechanisms of inflammatory tissue injury, free radical biology, sensory neurobiology, and gene therapy. The successful candidate will have a strong interest in inflammatory signaling mechanisms, cell and molecular biology, and/or translational research interests in these areas. The UAB School of Medicine ranks among the top 20 in NIH funding and the Department of Anesthesiology in the top 10. State-of-the-art facilities for microscopy, mass spectrometry and proteomics, gene expression profiling, macromolecular crystallography, physical biochemistry, genetic models of disease, and a supportive translational research environment are some of the benefits enjoyed by faculty researchers. Interested candidates should submit a letter of interest, contact information for three references, and comprehensive curriculum vitae that outlines research interests to:

**Bruce A. Freeman, Ph.D.**  
Professor and Vice Chair for Research  
Department of Anesthesiology  
The University of Alabama at Birmingham  
946 Tinsley Harrison Tower  
619 19th Street South  
Birmingham, AL 35294-0006  
FAX: 205-934-7437  
E-mail: [bruce.freeman@ccc.uab.edu](mailto:bruce.freeman@ccc.uab.edu)

*An Affirmative Action/Equal Employment Opportunity Employer.*

The Department of Radiation Oncology at Washington University in St. Louis, Missouri, has an **ASSISTANT** or **ASSOCIATE PROFESSOR** tenure-track position available. The position is open to qualified applicants depending on expertise and experience. Expertise in radiobiology is desired, emphasizing one of the following: normal tissue effects, DNA repair, radioisotope effects, oxidative stress, free radical biology, or other stress responses. Faculty is required to contribute to the teaching of radiobiology to radiation oncology residents. The successful applicant should have demonstrated ability to conduct independent research to attract outside funding. Apply to:

**Dr. Joseph L. Roti**  
Director  
Division of Radiation and Cancer Biology  
Department of Radiation Oncology  
Washington University School of Medicine  
4511 Forest Park Boulevard  
Suite 411  
St. Louis, MO 63108

*Washington University is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

**BIOSTATISTICS/BIOINFORMATICS:** Tenure-track **ASSISTANT/TENURED ASSOCIATE PROFESSOR**. August 2002; University of Illinois, Urbana-Champaign, Illinois. Appointment in Statistics Department and College of Medicine. Closing date: January 7, 2002. Curriculum vitae, three reference letters, transcripts (new Ph.D.s) to: **Professor Douglas Simpson, Statistics Department, 101 Illini Hall, 725 South Wright Street, Champaign, IL 61820**. For full announcement, visit website: <http://www.stat.uiuc.edu>. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITION Department of Physiology and Biophysics University of Arkansas for Medical Sciences

The Department of Physiology and Biophysics at the University of Arkansas for Medical Sciences (UAMS) invites applications for a full-time, tenure-track faculty position at the level of **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or FULL PROFESSOR**. The successful candidate at the Assistant Professor level will be expected to establish an independent, extramurally funded research program. Candidates for Associate and Full Professor are expected to have substantial research accomplishments and extramural grant support. Faculty at all levels are expected to contribute to the teaching programs of the College of Medicine and Graduate School. We seek individuals whose research interests complement existing strengths in the Department including receptor regulation, signal transduction, protein targeting, membrane biophysics, and cellular/molecular neurobiology. We are especially interested in individuals who can contribute to the development and expansion of campuswide centers of excellence in cardiovascular diseases, tumor biology, reproduction/development, neuroscience, aging, and musculoskeletal biology.

Applicants should submit curriculum vitae, statement of research interests, and names and addresses of three individuals who may be contacted for letters of reference to:

**Michael L. Jennings, Chair**  
Department of Physiology and Biophysics  
University of Arkansas for Medical Sciences  
4301 West Markham Street, Mail Slot 505  
Little Rock, AR 72205

In order to receive full consideration by the search committee, applications should be received no later than November 1, 2001.

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

### ASSISTANT PROFESSORS DEPARTMENT OF BIOLOGY VALDOSTA STATE UNIVERSITY

The Department of Biology announces two academic-year, tenure-track **FACULTY POSITIONS** in (1) genetics and (2) animal physiology at the Assistant Professor level beginning August 2002. Successful candidates will be expected to teach a course in their discipline and introductory courses for majors and/or nonmajors. Positions require a Ph.D. in the biological sciences and have the expectation of a continuing research program in the advertised discipline and a strong commitment to undergraduate teaching.

Valdosta State University, located in Valdosta, Georgia, the Azalea City, is within a two hours' drive of Jacksonville, Gainesville, and Tallahassee, Florida, and Macon, Georgia. The Biology Department has recently moved into a new state-of-the-art science building complete with teaching, research, and support facilities and is in the process of developing a Master's program. The Department, which is experiencing a significant increase in the number of new majors, has one of the largest academic programs at VSU.

Submit letter of application stating position applied for and addressing qualifications for that position along with curriculum vitae, statements of teaching philosophy and research interests, transcripts, and three letters of recommendation by 10 October 2001 to: **Dr. David L. Bechler, Department of Biology, Valdosta State University, Valdosta, GA 31698-0015**. *Valdosta State University is an Equal Opportunity Educational Institution.*

Women's studies. Barnard College: **ASSOCIATE or FULL PROFESSOR**, specialization(s) open. See website: <http://www.barnard.edu/provost/facpositions.htm>. Send letter with teaching and research interests, curriculum vitae, and addresses of three references to: **Women's Studies Search, Barnard College, 3009 Broadway, New York, NY 10027**. *Barnard College is an Equal Opportunity Employer and welcomes applications from women and members of under-represented groups.*

## POSITIONS OPEN

### TENURE-TRACK SENIOR/JUNIOR APPOINTMENTS GENETICS University of Richmond

The Department of Biology at this highly selective, private, primarily undergraduate university invites applications for two tenure-track positions with at least one appointment at a senior level (**ASSOCIATE** or **FULL PROFESSOR**). Each successful candidate will be expected to maintain a research program that combines genetic analysis and molecular biology, attracts extramural funding, and actively engages undergraduates. Teaching excellence that includes participation in the introductory genetics course and an upper-division elective in area of specialization is expected. We seek compelling applications from advanced or midcareer Biologists who have distinguished records of accomplishment as well as from especially strong candidates at the junior level (a Doctoral degree, postdoctoral experience, and a record of research productivity are required). Applicants should submit curriculum vitae, three recent publications, separate statements of (1) research interests and plans and (2) teaching experience and plans, and should have three letters of reference sent to: **Dr. W. John Hayden, Department of Biology, University of Richmond, Richmond, VA 23173**. For more information on the Department, resources, and teaching assignment, see website: <http://www.richmond.edu/academics/a&s/biology/index.html>. Review of applications will begin November 1, 2001, and continue until the positions are filled. Anticipated starting date of August 2002. *The University of Richmond is an Equal Opportunity/Affirmative Action Employer. We are committed to increasing the diversity of our faculty and strongly encourage applications from women and minorities.*

### ECOLOGY AND EVOLUTIONARY BIOLOGY

The University of Oregon Program in Ecology and Evolution and The Department of Biology seek applications for two positions in the fields of ecology and evolutionary biology. One position is at the **ASSISTANT PROFESSOR** level, while the other position may be filled at any rank. We are particularly interested in individuals studying fundamental problems related to the ecology and evolution of molecular and developmental processes, population-level processes, the causes and consequences of global change, phylogenetic theory and genomics, or microbial systems but we will consider outstanding applications in other areas. Applicants should submit curriculum vitae, statements of research interest and teaching philosophy, and three letters of recommendation to: **Ecology/Evolution Search Committee, Department of Biology, University of Oregon, Eugene, OR 97403-1210**. Website: <http://evolution.uoregon.edu/>. To ensure full consideration, applications must be received by November 1, 2001.

*The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans With Disabilities Act.*

### FACULTY POSITION

Bucknell University seeks outstanding candidates for a tenure-track position. The successful applicant will be expected to develop a vigorous research program in physical or biophysical chemistry involving undergraduates and Master's students. Teaching will involve physical or biophysical chemistry and general chemistry, biochemistry, or sophomore-level inorganic chemistry depending on the interests and background of the candidate. Ph.D. required; postdoctoral experience preferred. Applicants should send curriculum vitae; description of research plans; summary of teaching interests and experience (if applicable); and three letters of recommendation to: **Professor Brian Williams, Chair of the Physical Chemistry Search Committee, Department of Chemistry, Bucknell University, Lewisburg, PA 17837** by November 1, 2001. *Bucknell University encourages applications from women and members of minority groups. Equal Employment Opportunity/Affirmative Action.*

## EAST COAST CAREERS

### Wadsworth Center

New York State Department of Health

- Molecular Microbial Ecology
- Water-Borne Pathogens

The Environmental Microbiology Laboratory is expanding its research capacity to investigate the structure and function of aquatic microbial communities impacting public health and to detect existing and emerging environmental pathogens. We seek applications for positions from senior and junior level research scientists with strong backgrounds in molecular microbiology and microbial ecology.

The Center provides an exceptional research environment, is very well equipped, and has numerous cores with common access to equipment and services.

Successful candidates will be expected to establish innovative, grant-funded research programs and will be eligible for faculty appointment in the School of Public Health, University of Albany, State University of New York.

Applicants should submit a CV with names of three references to: **Dr. G.Yull Rhee, Wadsworth Center, PO Box 509, Albany, NY 12201-0509; rhee@wadsworth.org.**

For more information about the Wadsworth Center: [www.wadsworth.org](http://www.wadsworth.org)

*An Affirmative Action/Equal Opportunity Employer.*

## DISTINGUISHED FELLOWSHIP

### Lawrence Livermore Postdoctoral Fellowship

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Postdoctoral Fellowship Program. This is a highly desirable, prestigious position with ample resources and freedom to conduct cutting-edge research in the fields of the candidate's choice. Duration for the Fellowship is up to three years. Typically two openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials, and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Research, Atmospheric Science, Geological Sciences, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$6917/mo.

Please refer to our web page <http://www.llnl.gov/urp/LLNLPostDoc/LLNLPostDoc.htm> for eligibility requirements and application information. Please reference source code **AJSC911DO**. The deadline for application is November 1, 2001. No applications will be accepted after this date. LLNL is operated by the University of California for the National Nuclear Security Administration/ Department of Energy. We are an Equal Opportunity Employer with a commitment to workforce diversity.

University of California



Think BIG

For information about other employment opportunities, visit our website:

[www.llnl.gov/jobs](http://www.llnl.gov/jobs)

**Eppley  
Institute**

UNIVERSITY OF  
**Nebraska**  
Medical Center

### Doctoral and Postdoctoral Training in Cancer Research

#### EPPLEY CANCER INSTITUTE University of Nebraska Medical Center

**Genetics • Biochemistry • Cell Biology • Molecular  
Biology • Structural Biology • Signal Transduction •  
Gene Expression • DNA Repair • Immunology •  
Hormones and Cancer • Genomics • Bioinformatics**

Receive graduate and postdoctoral training in an internationally recognized, multidisciplinary, cancer research institute. The Eppley Institute for Cancer Research is a component of the UNMC Eppley Cancer Center, an NCI-designated Clinical Cancer Center. Our Cancer Research and Breast Cancer Training Programs are supported by grants from the NCI and U.S. Department of Defense. Trainees receive competitive stipends and benefits. For information or application contact: Ms. Diane Petersen, Eppley Institute for Research in Cancer, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, NE 68198-6805. Ph: 402-559-4092. Email: [dcpeters@unmc.edu](mailto:dcpeters@unmc.edu).

See <http://www.unmc.edu/Eppley/> for program and faculty research descriptions and online application.

*The University of Nebraska is an Affirmative  
Action/Equal Opportunity Employer and Educator.*

## EAST COAST CAREERS

### HELP SHAPE THE FUTURE OF THERAPEUTICS IN NEUROSCIENCE



The National Institute of Neurological Disorders and Stroke, NIH, is seeking a **Health Scientist Administrator** to provide key leadership for institute-wide translational research programs focused on finding new treatments for disorders of the nervous system. Relevant experience includes drug discovery, assay development, design and use of chemical libraries/databases, gene therapy approaches, or other areas that have potential use in therapeutic development. The incumbent is affiliated with the NINDS Technology Development Program and works closely with the Anticonvulsant Screening Program, but also collaborates with and advises staff on therapeutic development in all areas of the Institute's research effort. The appointee provides guidance for neurotherapeutic development projects in the extramural research community through interactions with consultants, industry, and academic scientists.

This is a senior level, Title 42 (f) federal position. U.S. citizenship is required. Salary will be commensurate with experience. Applicants should have a Ph.D. or M.D., extensive leadership and project management experience, creativity in designing new therapeutic approaches, experience in neuroscience/pharmacology research, and a record of relevant publications. Familiarity with federal research grants/contracts is desirable. As a selective factor, applicants should have experience with therapeutic development. Applicants are **strongly encouraged** to obtain specific information concerning the knowledge, skills, and abilities needed for the position by contacting Mr. Arvelo at the address below.

Applicants should submit by **Oct. 15** a letter of application (**refer to Technology Development Program Title 42 vacancy**), a description of how they meet the qualification criteria and selective factor above, a description of their relevant knowledge, skills, and abilities, a curriculum vitae, and a bibliography to: Mr. Luis Arvelo, NIH, NINDS Human Resources Branch, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda MD 20892-2540; Tel (301) 435-6033; Fax (301) 480-0383; Email: [la45j@nih.gov](mailto:la45j@nih.gov). For detailed information on duties, contact Dr. Robert Baughman, Tel (301) 496-1779; Email: [rb175y@nih.gov](mailto:rb175y@nih.gov).

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



## POSITIONS OPEN

### ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology at Grinnell College invites applications for a tenure-track Assistant Professor position beginning in August 2002. We seek candidates whose research program uses eukaryotic organisms to address questions at the molecular, cellular, and/or organismal level. The successful candidate will be able to contribute to courses related to the health sciences and will be expected to teach two courses in our inquiry-based curriculum (Introduction to Biological Inquiry and Molecules, Cells, and Organisms) and an upper-level course in the candidate's area of specialty. In some years, a general education course will substitute for one of these courses. Candidates must have a Ph.D., postdoctoral experience, and plan an active research program involving undergraduates. Start-up funds, excellent equipment, recently renovated facilities, support for student-faculty research, and a biological field station are available. In their letters of application, candidates should address their interest in developing as a teacher and scholar in an undergraduate liberal arts environment that emphasizes close student-faculty interaction and values diversity. Send curriculum vitae, three letters of recommendation, and copies of all transcripts to: **Dr. Charles H. Sullivan, Biology Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-1690. E-mail: [sullivanc@grinnell.edu](mailto:sullivanc@grinnell.edu); FAX: 641-269-4285.** For further information about Grinnell College, please see website: <http://www.grinnell.edu>.

To be assured of full consideration, complete applications should be received by October 19, 2001. *Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified faculty and staff that reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.*

### FACULTY POSITION

#### Waksman Institute, Rutgers University

Applications are invited for a tenure-track position in plant developmental biology or other cutting-edge areas of plant sciences. The appointment can be made at any level from **ASSISTANT** to **FULL PROFESSOR**. The applicant is expected to maintain a successful, externally funded research program and to have an interest in teaching at the undergraduate and graduate levels. Applicants should send curriculum vitae, list of publications, a summary of research plans, and arrange to have three confidential letters of reference sent to: **Pal Maliga, Chair, Plant Search Committee, Waksman Institute, Rutgers University, 190 Frelinghuysen Road, Piscataway, NJ 08854-8020.** The committee will begin its review of applications November 15, 2001. Applications will be accepted until the position is filled. Starting date is September 1, 2002. *Rutgers University is an Equal Opportunity Employer.*

**ASSISTANT PROFESSOR OF LANDSCAPE ANALYSIS AND MANAGEMENT**, Land Resources and Environmental Sciences Department, Montana State University-Bozeman. Tenure track, fiscal year appointment available July 1, 2002. Position is 70% research, 30% teaching. Successful candidate will lead multidisciplinary research and teach in soil and landscape dynamics (pedology) that links basic soil physical and chemical processes with landscape processes. Required: Ph.D. in environmental science, soil science, agronomy, landscape ecology, or closely related field and academic and research background in soil and landscape dynamics. Applicants must review a complete vacancy announcement. Available at website: <http://www.Montana.edu/level2/jobs.html> or request from: **Peggy Humphrey, LRES, Montana State University-Bozeman, P. O. Box 173120, Bozeman, MT 59717-3120. Telephone: 406-994-5718; e-mail: [peggyh@montana.edu](mailto:peggyh@montana.edu); FAX: 406-994-3933.** Screening begins December 1, 2001. No FAX/e-mail applications. *Americans With Disabilities Act/Affirmative Action/Equal Opportunity/Veterans Preferred.*

## POSITIONS OPEN

### DEVELOPMENTAL BIOLOGIST The University of New Mexico School of Medicine

The Department of Cell Biology and Physiology invites applications for a tenure-track faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Applicants must have a Ph.D. or M.D. degree or the equivalent and at least three years of postdoctoral experience. In addition, they should either have an established research program or have demonstrated high potential for obtaining extramural funding as evidenced by high-quality publications. Preference will be given to applicants working in areas of vertebrate developmental biology, particularly those using cellular and/or molecular approaches. The selected individual will be expected to participate in graduate and medical school teaching programs including a newly organized human structure, function, and development block for medical students that focuses on gross anatomy, histology, and embryology. Funding at the UNM Health Sciences Center has enjoyed an unprecedented increase in the past several years, enabling the development of state-of-the-art research facilities and a significant growth in the number and quality of the research programs. Current interests of an interdepartmental group of Developmental Biologists include cell migration and adhesion, tissue remodeling, and signal transduction during heart, craniofacial, muscle, skeletal, and mammary gland morphogenesis. For best consideration, applications must be received by November 1, 2001. Send curriculum vitae, a brief description of research and teaching interests, and the names and addresses of three references to: **Developmental Biology Search Committee, Department of Cell Biology and Physiology, University of New Mexico School of Medicine, Albuquerque, NM 87131.** *UNM is an Equal Opportunity/Affirmative Action Employer/Educator.*

### ASSISTANT PROFESSOR CELL BIOLOGY

The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. The position is open to all areas of cell biology, but those who study bioenergetics are especially encouraged to apply. A Ph.D. or equivalent degree and postdoctoral experience are required. The successful candidate will be expected to establish and maintain an extramurally supported research program, supervise graduate students, and teach at the graduate and undergraduate levels. The Department of Biological Sciences has recently expanded into the new 70,000-square-foot Life Sciences Annex and offers competitive start-up packages. Review of applications will begin November 1, 2001, and will continue until a suitable candidate is identified. Send curriculum vitae, three reprints, a statement of research and teaching interests, and three letters of recommendation to: **Cell Biology Search Committee, c/o Dr. Jackie Stephens, Department of Biological Sciences, 202 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803. Reference Log Number 0314.** Applicants are encouraged to visit our website: <http://www.biology.lsu.edu> to learn about our areas of research emphasis. E-mail inquiries may be sent to: **e-mail: [jsteph1@lsu.edu](mailto:jsteph1@lsu.edu).** *LSU is an Equal Opportunity/Equal Access Employer.*

**ASSISTANT PROFESSOR** of biology/genetics, Elizabethtown College. Full-time tenure-track position beginning August 2002. Ph.D. required and familiarity with classical, population, plant, and cytogenetics. Responsibilities: teaching courses in genetics, introductory biology for majors, and biology for non-majors; recruiting and advising students; and maintain an active research program involving undergraduates. For information about Elizabethtown College, Department of Biology, and directions to apply, visit our website: <http://www.etown.edu>.

Application deadline is October 15, 2001. *As an Affirmative Action/Equal Opportunity Employer, Elizabethtown College is seeking candidates who will enhance the diversity of its faculty, staff, and administration.*

## POSITIONS OPEN

### THE UNIVERSITY OF CALIFORNIA SAN DIEGO Division of Biology

The Division of Biology at UCSD has a large faculty spanning many areas of biological science and one of the largest and most diverse graduate programs in the country. We invite applications for faculty positions in the new

### NEUROBIOLOGY SECTION

We plan to make appointments at the **ASSISTANT PROFESSOR** level in several areas of neurobiology including systems and integrative, computational, and behavioral neurobiology; and genetic, molecular, cellular, and developmental neurobiology. Tenure-track candidates must have demonstrated ability to develop a rigorous research program. All candidates must have Ph.D. or equivalent degree and a commitment to teaching at the undergraduate and graduate levels. The level of appointment will be commensurate with qualifications and experience with salary based on University of California pay scale.

Applications received by October 15, 2001, will be assured of consideration. Send curriculum vitae; complete list of publications; brief description of research interests and professional goals; and the names of at least three references with addresses, e-mail addresses, telephone, and FAX numbers to: **Neurobiology Search Committee Number 3-9255, Division of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.**

*UCSD is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.*

**STATE UNIVERSITY OF NEW YORK AT BINGHAMTON.** The Department of Psychology is seeking to hire a **FACULTY MEMBER** in behavioral neuroscience (rank open) to begin fall 2002. Our behavioral neuroscience program ([website: http://psychology.binghamton.edu/bns/index.html](http://psychology.binghamton.edu/bns/index.html)) has a strong research emphasis with particular strengths in the areas of neurobehavioral development, learning and memory, and other adaptations to challenges that include drugs of abuse and stressors. Preference will be given to applicants whose areas of specialization complement, enhance, or extend these strengths. Applicants should have an exceptionally strong record of research, potential to acquire funding for their research, and commitment to the training of graduate and undergraduate students. Send curriculum vitae, reprints, and three letters of recommendation to: **Norman E. Spear, Ph.D., Chair, Behavioral Neuroscience Search Committee, Department of Psychology, Binghamton University (SUNY), P.O. Box 6000, Binghamton, NY 13902-6000.** In addition, letters and other documents may be e-mailed to the Search Committee at **e-mail: [gdaniels@binghamton.edu](mailto:gdaniels@binghamton.edu).** Applications will be evaluated upon receipt and the search will continue until a candidate is selected. *Binghamton is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR Molecular Microbiology

The Department of Biology in the College of Arts and Sciences at Virginia Tech invites applications for a tenure-track position. Applicants should demonstrate a strong background in the application of molecular techniques to the study of the physiology, genetics, diversity, or ecology of prokaryotic microorganisms. Application details and a complete position description can be found at website: <http://www.biol.vt.edu/faculty/position.html> or by contacting **Dr. Allan Yousten**. Individuals with disabilities desiring accommodations in the application process should notify: **Dr. A. Yousten, Biology Department; (e-mail: [yousten@vt.edu](mailto:yousten@vt.edu); Telephone: 504-231-5909)** by the application deadline. Applications are due by November 15, 2001. *The College of Arts and Sciences is deeply committed to recruiting, selecting, promoting, and retaining women, persons of color, and persons with disabilities. We strongly value diversity in the college community and seek to assure Equality in Education and Employment.*

## Tenure-Track Faculty Positions

Due to increased emphasis in the biological sciences within the University of Missouri system, the **Department of Biological Sciences at the University of Missouri-Rolla** is currently adding two faculty positions. We invite applications from qualified, energetic individuals for tenure-track positions at the rank of **Assistant Professor** to commence **Fall Semester, 2002**. Candidates must have a Ph.D., a minimum of two years of postdoctoral experience, evidence of excellence in teaching, and a strong record of research.

Current growth of the department allows us to consider candidates that complement our existing expertise and have research interests in one of the following areas:

**Freshwater Ecology  
Mycology  
Developmental Biology  
Cell Biology  
Animal Physiology**

The Department of Biological Sciences has recently initiated a new Master of Science Degree program in **Applied and Environmental Biology**. We anticipate further growth of the department to include the development of a PhD degree program over the next five years. With the increased emphasis in the biological sciences, the possibility for multidisciplinary research exists on our campus, recognized as Missouri's technological university. New and existing programs in the areas of **Bioinformatics**, **Biomaterials**, and **Bioremediation** provide rapidly growing opportunities for research collaborations. Additionally, the surrounding area provides exciting opportunities for study of the Mark Twain National Forest with its rivers and streams, Missouri's New Lead Belt, and the agricultural development and unique geology of the region.

The city of Rolla, with approximately 16,500 residents, provides a pleasant small town environment. Rolla has national Blue Ribbon schools, state Gold Star schools, a regional medical center, a crime rate that is so low that it's virtually non-existent, and the beautiful Ozark scenery of mountains, oak-hickory forest and pristine streams. Rolla is located near the center of the state of Missouri on Interstate 44 (Old Route 66) offering easy access to the cities of St. Louis and Springfield, MO and points beyond.

Additional information on the positions is available at [www.umsr.edu/~biosci](http://www.umsr.edu/~biosci). Send complete application, including curriculum vitae and statements of research objectives and teaching interests, and arrange to have three letters of reference sent to:

**Human Resource Services  
Position R53619  
University of Missouri-Rolla  
1202 North Bishop  
1870 Miner Circle  
Rolla, MO 65409-1050**

*UMR is an AA/EEO employer. Women, minorities, and persons with disabilities are encouraged to apply.*

For more than 90  
years, Chemical  
Abstracts Service  
has been the world  
leader in providing  
chemical and  
related scientific  
information.  
Today, we offer  
the most  
comprehensive and  
timely access to  
chemical literature  
and patents through  
services in print  
and electronic  
form, including  
sophisticated Web  
resources. Our  
reputation for  
advanced search  
and retrieval  
software  
complements the  
quality of our  
databases,  
spanning a century  
of scientific  
innovation.



A Division of the  
American Chemical Society



**You Don't Have To Be In  
The LAB To Be On The  
LEADING EDGE of SCIENCE...**

## WE ARE LOOKING FOR CHEMISTRY PROFESSIONALS FOR THE FOLLOWING POSITIONS:

**Biochemist** - Master's degree or higher with course work and/or research experience in general biochemistry, enzyme chemistry or molecular biology. Foreign-language reading capabilities are a plus.

**Pharmaceutical Chemist** - Master's degree or higher with course work and/or research experience in pharmacology and/or pharmaceuticals. Japanese, Chinese, and German language skills are highly desirable.

**Endocrinologist** - Master's degree or higher with a strong background in endocrinology course work and/or research experience.

**Immunologist** - Master's degree or higher with course work and/or research experience in immunology. Japanese language skills are highly desirable.

Responsibilities include:

Analyzing, abstracting, and indexing chemistry journal articles and patents and/or identifying, analyzing, and drawing chemical structure diagrams for registration. Candidates will work individually and in a collaborative team environment.

At Chemical Abstracts Service you will find state-of-the-art technology and talented professionals providing the world's largest databases of chemical information to scientists around the world. Our reputation for advanced search and retrieval software complements the quality of our databases, spanning a century of scientific innovation.

We offer a professional working environment in a pleasant suburban area near The Ohio State University and at the heart of Columbus' growing high-tech community. CAS offers competitive salaries, excellent insurance, retirement programs and generous vacation plans. For consideration, fax, mail or e-mail your resume indicating your salary expectations to:

**CHEMICAL ABSTRACTS SERVICE  
Human Resources  
P.O. Box 3012  
Columbus, Ohio 43210  
Fax: (614) 447-3816  
E-mail: [jobs@cas.org](mailto:jobs@cas.org)  
[www.cas.org](http://www.cas.org)**

An Equal Opportunity Employer

## POSITIONS OPEN

### DEPARTMENT OF BOTANY AND MICROBIOLOGY University of Oklahoma

Applications are invited for four tenure-track positions to begin in summer 2002 at the **ASSISTANT PROFESSOR** level. The Department seeks outstanding individuals who will contribute to its research, teaching, and service missions; work collaboratively with faculty colleagues; and whose research focuses on (Search Number 1) plant development/plant genomics, addressing fundamental aspects of plant development and/or the influence of environmental stress on plant development and growth using modern tools of molecular analysis; (Search Number 2) molecular microbiology, using state-of-the-art methodologies to study cellular events at the molecular level in microbial systems or model microorganisms; (Search Number 3) molecular ecology, using molecular approaches to understand the ecological principles that govern the structure and function of microbial systems, their relationships to hierarchical ecological levels, and/or the molecular basis of interactions with macrobiota; or (Search Number 4) geomicrobiology, studying the role of microbes in geomicrobiological and biogeochemical processes related to global climate change and focusing on the microbial production and consumption of one or more important greenhouse gases.

Qualified candidates must possess a Ph.D. or equivalent degree; relevant postdoctoral experience; and provide evidence of a strong ability to develop independent, extramurally funded research as well as a strong commitment to teaching at the graduate and undergraduate levels. Applicants should send current curriculum vitae, representative reprints; statements of research plans, teaching interests and philosophy; the search number to which the application pertains; and arrange to have three letters of reference sent to: **Dr. Gordon Uno, Chair, Department of Botany and Microbiology, 770 Van Vleet Oval, University of Oklahoma, Norman, OK 73019. E-mail: guno@ou.edu.** Review of applications begins November 15, 2001, and will continue until positions are filled.

Successful candidates have opportunities to collaborate with a dynamic faculty possessing strengths in functional genomics and proteomics, microbial physiology, microbial pathogenesis, ecology, global change, phytoremediation and bioremediation, plant structure, and systematics. Resources include an electron/confocal microscopy facility, a sequencing facility, a microarray facility, and a planned genomics research institute. More information about the faculty, Department, and searches may be obtained at: **website: <http://www.ou.edu/cas/botany-micro/>.** All positions offer excellent benefits. *The University of Oklahoma is an Equal Opportunity Employer. Women and members of underrepresented groups are encouraged to apply.*

**BIOLOGY ASSISTANT PROFESSOR**, organismal physiology. Hamline University invites applications for a full-time, tenure-track position at the Assistant Professor level to begin September 2002. Candidates should be broadly trained in integrated systems/whole organism physiology and committed to teaching and research in an undergraduate institution. Teaching responsibilities will include introductory physiology, advanced electives, and a nonmajors course in the general education program. Candidates who contribute to a divisional emphasis on scientific computing and modeling and an interdepartmental biochemistry program are preferred. A Ph.D. is required. Hamline is a small urban university in a five-college consortium with proximity to the University of Minnesota. For more information, visit our **website: <http://www.hamline.edu/depts/biology>.** Send cover letter, curriculum vitae, teaching philosophy, research plans, and three letters of recommendation to: **Presley Martin, Chair, Biology Department, Hamline University, 1536 Hewitt Avenue, Saint Paul, MN 55104. E-mail: pmartin@hamline.edu.** Deadline for applying: October 26, 2001. *Hamline University is an Equal Educational/Employment Institution. Members of underrepresented groups are strongly encouraged to apply.*

## POSITIONS OPEN

### ECOLOGIST ASSISTANT PROFESSOR

Applications are invited for a tenure-track position in the Department of Biological Sciences within the Columbian College, the liberal arts college of The George Washington University. Responsibilities: (1) Establish an extramurally supported research program involving graduates and undergraduates in an area of applied or field ecology (such as urban rehabilitation, habitat restoration, conservation, tropical systems, or fresh water or estuarine ecology) that complements existing strengths in the Department; (2) teach undergraduate and graduate courses, lectures, and laboratory (e.g., restoration ecology, tropical ecology, systems ecology, community ecology, environmental biology). Position starts August 2002. Review of applications begins October 25, 2001, and continues until the position is filled. Please send a letter of application that includes a statement of research plans, descriptions of courses you are prepared to teach, curriculum vitae, up to three reprints, and at least three letters of reference to:

**Chair of the Search Committee  
Department of Biological Sciences  
Lisner Hall 340**

**The George Washington University  
Washington, DC 20052**

**E-mail: [biology@gwu.edu](mailto:biology@gwu.edu)**

**Website: <http://www.gwu.edu/~biology/>**

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

### FACULTY POSITIONS WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY

#### Department of Pharmacology

Candidates are sought for tenure-track positions at the level of **ASSISTANT PROFESSOR**. Candidates with interests in a wide range of areas related to the disciplines of pharmacology and clinical pharmacology will be considered. The responsibilities of this position include development of an active, independent research program and participation in both medical and graduate student teaching programs in the Department. Applicants should send curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three Scientists who can evaluate the candidate's accomplishments. Weill Medical College of Cornell University is a part of the New York Presbyterian-Weill Cornell Medical Center and is adjacent to Memorial Sloan-Kettering Cancer Center and Rockefeller University. Applications should be sent to: **Chair, Pharmacology Search Committee, Box 70, Pharmacology Department, Weill Medical College, 1300 York Avenue, New York, NY 10021. FAX: 212-746-8858. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.**

### RESEARCH ASSOCIATE Toxicology

Applications are invited for a position of Research Associate in the Department of Biological Sciences at Alcorn State University (ASU) located near historic Natchez and Vicksburg, Mississippi. This position is for period of three years or until March 31, 2005. Responsibilities include research activities in areas of heavy metal toxicity in brain including second messenger system; signal transduction; isoforms of PKC, NOS, and NMDA; and reactive oxygen species. Should be able to initiate and complete research independently. Competitive salary with good fringe benefits.

The successful candidate will have a Ph.D. in appropriate area with demonstrated expertise in research in areas listed above. Interested applicants should send curriculum vitae and the names and addresses of three references to: **Bettaiya Rajanna, Ph.D., Department of Biological Sciences, Alcorn State University, 1000 ASU Drive, P.O. Box 870, Alcorn State, MS 39096. E-mail: [brajanna@lorman.alcorn.edu](mailto:brajanna@lorman.alcorn.edu); FAX: 601-638-3989.** *Alcorn State University is an Equal Opportunity Employer committed to the development of a diverse workforce.*

## POSITIONS OPEN

The University of Oklahoma is searching for a Conservation Biologist to fill a 12-month, tenure-track, joint faculty position as a Terrestrial Zoologist in the Oklahoma Biological Survey and an **ASSISTANT PROFESSOR** in the Department of Zoology starting 1 July 2002. Preference will be given to researchers engaged in field-based conservation studies and who have an interest in Oklahoma and/or associated ecoregions. Responsibilities include inventorying and evaluating priority species and biological communities in Oklahoma, interacting with conservation agencies, participating in public outreach, developing an active research program in area of specialty, and teaching one course per year. Ph.D. required. The successful applicant must demonstrate broad knowledge of terrestrial fauna, ability to conduct field studies, research productivity and potential for external funding, and teaching. Screening will begin 1 December 2001 and continue until the position is filled. Please provide a résumé, a written summary of how the requirements outlined above are met, reprints, and four references to: **Bruce Hoagland, Search Committee Chair, Oklahoma Biological Survey, University of Oklahoma, Norman, OK 73019. Telephone: 405-325-1985; FAX: 405-325-7702; e-mail: [bhoagland@ou.edu](mailto:bhoagland@ou.edu).** For additional information on programs at OBS and the Department of Zoology, go to **websites: <http://www.biosurvey.ou.edu> and <http://www.ou.edu/cas/zoology/>.** *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.*

Humboldt State University seeks a dynamic **SENIOR SCIENTIST** to serve as Director of the Institute for Forest and Watershed Management. Surrounded by premier timberland in Arcata, California, the Institute was developed to provide scientific data and analyses that will help to inform society's debate over the appropriate balance between the protection and the extraction of renewable natural resources. The Director is expected to develop the Institute into a leading center of research on the effects of management on forest ecosystems and watersheds. The Institute is a public-private partnership involving academics, the forest products industry, public agencies, and other Scientists. The ideal candidate would be an enthusiastic visionary who could bridge diverse social, political, and environmental perspectives.

A complete position announcement may be seen at **website: <http://www.humboldt.edu/~for/facindex.shtml>.** For further information contact: **Dr. Hobart Perry, Search Committee Chair; Telephone: 707-826-5622; e-mail: [chp1@humboldt.edu](mailto:chp1@humboldt.edu).** All complete application files received by October 15, 2001, will receive full consideration. Those received following this date may be considered until the position is filled.

*The University is an Equal Opportunity/Affirmative Action/Title IX Employer. Application from and nominations of qualified disabled, minority, and women candidates are particularly encouraged.*

**ANIMAL PHYSIOLOGIST.** Broadly trained physiologist to teach a one-semester lecture/laboratory course in animal physiology with ability to offer additional advanced courses in endocrinology, developmental biology, or other related specialties. The successful candidate will also be expected to participate in the teaching of a two-semester general biology sequence and advisement of students. The incumbent will be expected to establish a research program involving our undergraduates. Applicants for this full-time, tenure-track position must have a Doctorate in biology and have instructed at the college level. A demonstration of teaching effectiveness will be required as part of the interview process. Starting date of August 31, 2001, or as early as January 15, 2002. Candidate must demonstrate a willingness to contribute to the college's mission. Send application addressing teaching philosophy, research interests, curriculum vitae, and three letters of recommendation. Review of applicants will begin October 15, 2001. Send to: **Dr. Tim Flood, Chair, Division of Natural Sciences, St. Norbert College, 100 Grant Street, De Pere, WI 54115. Website: <http://www.snc.edu/bio/>.** *Equal Opportunity Employer.*



## FIGHTING CANCER

*Seattle Genetics, Inc. is a biotechnology company focused on enhancing the survival of cancer patients through monoclonal antibody (mAb)-based therapeutics. Using its mAb-based technologies, the company has assembled a portfolio of product candidates which are in both clinical and preclinical development.*

*Seattle Genetics is seeking innovative, self-motivated individuals who are interested in applying their skills toward the development of novel drugs for the treatment of cancer.*

**ASSOCIATE DIRECTOR/DIRECTOR CHEMISTRY PROCESS DEVELOPMENT  
MANAGER OF QA/QC  
HEAD OF EXPERIMENTAL THERAPEUTICS  
RESEARCH SCIENTIST (CELL CULTURE)  
RESEARCH ASSOCIATES (PROCESS SCIENCES & ANTIGEN DISCOVERY)**

*To apply, or find out more about these and other opportunities, visit our website:*

**[www.seattlegenetics.com](http://www.seattlegenetics.com)**

*Through innovative drug discovery, preclinical and clinical development, platform technologies and collaborations with corporate partners, Seattle Genetics is strategically positioned to fight cancer in the 21st century.*

### Molecular Medicine

The Department of Molecular Medicine invites applications for three tenure-track positions at the Assistant Professor level and above. We are particularly interested in candidates focusing on carcinogenesis, cell cycle, tumor suppressor genes, growth factors, and DNA repair, although outstanding scientists in other fields of investigation are also strongly encouraged to apply. Applicants for the Assistant Professorship should have postdoctoral training and a substantial record of contributions to the peer-reviewed literature. Applicants for more senior positions should have an established research program and extensive experience in training graduate students and postdoctoral fellows.

We offer highly competitive salaries and an excellent startup package including modern laboratory space, funds for personnel and supplies, and state-of-the-art core facilities. Successful applicants will also be appointed faculty in the Molecular Medicine Graduate Program.

Please send curriculum vitae, a one-page statement of research accomplishments and objectives, and the names of three or more referees by November 1, 2001 to Dr. Alan Tomkinson (for senior positions) or Dr. Phang-Lang Chen (for junior positions) at the following address:

**Department of Molecular Medicine  
University of Texas Health Science Center at San Antonio  
15355 Lambda Drive  
San Antonio, Texas 78245-3207**

For further information about our department and graduate program, please visit our web site at [www.molecularmedicine.uthscsa.edu](http://www.molecularmedicine.uthscsa.edu).

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

**DEPAUL UNIVERSITY**, Chicago, IL 60614. The Environmental Science Program and Department of Geography announce the tenure track position of Assistant Professor in Environmental Sciences and Geography with competence or specialization in climatology and global change. Specializations may include climate change influences on ecosystem processes, climate modeling, human-induced climate change, biogeochemical cycling, or some other specialization that relates to climatology and global change. This position will commence Fall Term 2002. Candidates will need to have completed their doctoral degree by the time of employment. The Environmental Science Program and Department of Geography collectively have strengths in soil science, ecology (ecosystem, landscape, plant, avian, restoration), urban forestry, biogeography, and cartography/GIS/remote sensing. In addition to courses that serve the general education science curriculum, the successful candidate will be expected to develop courses in their area of specialization and at the intersection of climate processes/global climate change and public policy. We especially welcome applications from scholars who can demonstrate competence in GIS/remote sensing/visualization. DePaul University places emphasis both on excellence in teaching and sustained scholarship. Information about the two units can be found at [gis.depaul.edu/geography](http://gis.depaul.edu/geography) (Department of Geography) and [www.depaul.edu/~envirsci](http://www.depaul.edu/~envirsci) (Environmental Science Program).

Submissions should include (1) an academic CV, (2) a one-page statement of teaching experience, philosophy and interests (3) a one-page statement of research interests (4) three academic recommendation letters and (5) up to three published papers. The Search Committee will begin reviewing applications on 1 December 2001, and will accept applications until the position is filled. Please direct your submissions to: **Dr. James Montgomery; Chair, Search Committee; Environmental Science Program; DePaul University; Chicago, IL 60614.** (E-mail: **Dr. James Montgomery, Acting Director, Environmental Sciences: [jmontgom@wppost.depaul.edu](mailto:jmontgom@wppost.depaul.edu)**, or **Dr. Patrick McHaffie, Acting Chair, Department of Geography: [pmchaffie@wppost.depaul.edu](mailto:pmchaffie@wppost.depaul.edu)**).

Well known for its reputation for excellence and as the largest Catholic University in the United States, DePaul University has been educating Chicago for over 100 years. At DePaul, you'll work in a collaborative environment that lives its values, supports diversity and encourages professional development. *DePaul University has made a strong commitment to enhancing diversity among both faculty and students. We strongly encourage female candidates and candidates of color to apply for the position. DePaul University is an Affirmative Action and Equal Opportunities Employer.*

## POSITIONS OPEN

### FACULTY POSITIONS IN MOLECULAR BIOSCIENCES Washington State University

The School of Molecular Biosciences will fill two tenure-track positions to begin August 2002 or later, one at the **ASSISTANT PROFESSOR** level and one at the **ASSOCIATE or FULL PROFESSOR** level. Both positions include competitive salaries, excellent laboratory facilities, access to state-of-the-art equipment, and excellent quality of life. We are looking for highly qualified colleagues to complement and build on our current strengths in the study of plant, animal, and microbial systems in areas such as protein biotechnology, reproductive biology, physiology, pathogenesis, metabolism, enzymology, structural biology, biophysics, chromosome dynamics and repair, and gene regulation and expression (see [website: http://molecular.biosciences.wsu.edu](http://molecular.biosciences.wsu.edu)).

The School offers undergraduate and graduate degrees in biochemistry, microbiology, cell biology, and genetics. The successful candidates will be expected to develop and maintain a vigorous research program supported by extramural funding, train graduate students, and participate in graduate and undergraduate teaching. Candidates must have a Ph.D., postdoctoral training, the ability to communicate effectively with students and colleagues, and a record indicating outstanding abilities and potential in research and teaching. Assistant Professor: Preference will be given to candidates who have expertise in the broadly defined fields of molecular genetics and cell biology (including genomic and bioinformatic approaches) and who investigate fundamental problems in biology. Senior level: Preference will be given to established investigators who have a strong record of scientific accomplishment and external research funding in an area of molecular biosciences. The advanced position may include an Endowed Professorship and/or the opportunity for an administrative role in the School. Screening of applicants will begin November 1, 2001, and continue until the position is filled. Send letter of application; curriculum vitae; a statement of current and long-term research interests; and arrange for three letters of reference addressing research potential, teaching, and communication skills to be sent to: **Dr. Michael Kahn, Search Committee Chair, School of Molecular Biosciences, Washington State University, Pullman, WA 99164-4660.**

*Washington State University employs only U.S. citizens and lawfully authorized non-U.S. citizens. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, Vietnamese or disabled veterans, persons of disability, and/or persons age 40 or over are encouraged to apply.*

### ASSISTANT PROFESSOR FUNCTIONAL GENOMICS University of California Santa Barbara

Applicants conducting research at the cutting edge of functional genomics and utilizing new tools and concepts of the genomic revolution are encouraged to apply for this tenure-track position in our programs in molecular biology and biomolecular science and engineering. We especially seek creative Scientists with demonstrable evidence of innovation and a broad research program that exploits the advantages of model systems. This position will be filled at the Assistant Professor level jointly within the Department of Molecular, Cellular, and Developmental Biology and the new interdisciplinary graduate program in Biomolecular Sciences and Engineering. The appointee will be expected to lead a dynamic, independent research program and to participate effectively in undergraduate and graduate instructional activities.

Submit curriculum vitae, selected reprints, a brief description of previous and anticipated research, and arrange to have at least three letters of reference sent to: **Functional Genomics Search Committee, MCD Biology Department, University of California, Santa Barbara, Santa Barbara, CA 93106.** Review of applications will begin November 15, 2001, and continue until the position is filled. UCSB is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



### SYSTEMATIC BIOLOGIST

The Department of Biology, University of Miami, invites applications for a tenure-track position in systematic biology at the rank of **ASSISTANT PROFESSOR**. Candidates must have a Ph.D. or equivalent degree and will be expected to establish an independent research program and to teach at the undergraduate and graduate levels. We encourage applications from persons working with plants and with interests in conservation biology. Departmental strengths lie in tropical biology, evolution, ecology, and behavior. The Department has cooperative relationships with Fairchild Tropical Gardens, Everglades National Park, and the Smithsonian Tropical Research Institute and is a founding member of the Organization for Tropical Studies. Applications will be reviewed beginning 15 January 2002. Applicants should send a statement of research interests and plans, curriculum vitae, representative publications, and the names and addresses of three references to: **Dr. Theodore H. Fleming, Systematic Biologist Search, Department of Biology, University of Miami, P.O. Box 249118, Coral Gables, FL 33124.**

*The University of Miami is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

### PLANT PHYSIOLOGIST Southeastern Louisiana University

The Department of Biological Sciences, Southeastern Louisiana University, invites applications for a tenure-track position available August 2002 at the **ASSISTANT PROFESSOR** level. The selected individual will be a Plant Physiologist who addresses ecological questions, ideally in wetlands ecology. Preference will be given to applicants with experience in field and laboratory ecology and who have expertise in biochemical, biophysical, and/or molecular techniques. Teaching responsibilities include undergraduate/graduate courses in botany and in the area of specialty. Opportunities at SLU include a field station on the Manchac swamp, a new biology building, a diverse local flora, and the cultural life of nearby New Orleans. Ph.D. required; postdoctoral experience preferred. Send letter of application, résumé, statement of research and teaching interests, and three letters of reference to: **Dr. Nick Norton, Department of Biological Sciences, Southeastern Louisiana University, SLU 10736, Hammond, LA 70402.** Website: <http://www.slu.edu/Academics/Depts/Biology>. Deadline of application is October 5, 2001.

*SLU is an Affirmative Action/Americans With Disabilities Act/Equal Employment Opportunity Employer.*

**VERTEBRATE BIOLOGIST/ECOLOGIST:** Nine-month, tenure-track **ASSISTANT/ASSOCIATE PROFESSOR**, Department of Biological Sciences, Emporia State University, Emporia, Kansas. Teach wildlife biology, ornithology, and mammalogy at either the undergraduate or graduate level. A Ph.D. in vertebrate biology, zoology, wildlife science, or a related natural resource field is required. Research expertise expected to augment Department's historically strong program in natural history/field biology. Screening will begin October 31, 2001, and continue until the position is filled. Starting date January or August 2002. Application must include cover letter; statement of teaching philosophy; statement of research goals; curriculum vitae; unofficial transcripts from all schools attended; and names, addresses, telephone numbers, and e-mail addresses of four references. Mail applications to: **David Edds, Chair, Vertebrate Biologist Search Committee, Department of Biological Sciences, Campus Box 4050, Emporia State University, Emporia, KS 66801-5087.** Telephone: 620-341-5622; FAX: 620-341-5607; e-mail: [eddsdavi@emporia.edu](mailto:eddsdavi@emporia.edu); website: <http://biology.emporia.edu>. An Affirmative Action/Equal Opportunity Employer Institution, Emporia State University encourages minorities and women to apply.

## POSITIONS OPEN

### PLANT-ANIMAL INTERACTION BIOLOGIST

Tenure-track **ASSISTANT PROFESSOR** position starting August 2002. Ph.D. or expectation of completion this academic year required; teaching and postdoctoral research experience desirable. The successful candidate will participate in undergraduate courses in ecology and conservation biology and will also contribute to environmental studies and universitywide programs. The appointee will join a biology faculty deeply involved in a strong, research-oriented program for undergraduate students and will contribute to this effort by offering a research course in plant-animal interactions. Please forward a letter of application with curriculum vitae, transcripts, and separate statements of teaching philosophy and research interests to: **Dr. Ron Hoham, Department of Biology, Colgate University, 13 Oak Drive, Hamilton, NY 13346-1398** and also arrange to have three letters of recommendation sent to this address. Review of applications will begin October 22, 2001, and continue until the position is filled. We intend to begin interviewing candidates by early November 2001. *Colgate University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

### THREE TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSORSHIPS

The Department of Bioscience and Biotechnology is searching for three tenure-track faculty in the general areas of cell biology, microbiology, and nutrition. Research concentrations in signal transduction, membrane transport, cytoskeletal and motor proteins, microbial food-borne pathogenesis, nutritional biochemistry, or nutritional determinants of disease are highly desired. Preference will be given to candidates with research interests and skills that complement those of current faculty. Candidates must demonstrate a strong commitment to teaching both undergraduate and graduate students. Consideration of applications begins October 8, 2001, and will continue until the positions are filled. Applicants should submit curriculum vitae, statement of research accomplishments and goals, statement of teaching interests and experience, and three letters of reference to: **Faculty Search, Department of Bioscience and Biotechnology, Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104.** Telephone: 215-895-2623; FAX: 215-895-1273; website: <http://www.bioscience.drexel.edu>. E-mail questions (not applications) to e-mail: [bioscience@drexel.edu](mailto:bioscience@drexel.edu). *Drexel is an Equal Opportunity Employer.*

**PLANT ECOLOGIST.** Birmingham-Southern College, a national undergraduate liberal arts college, invites applications for a tenure-track **ASSISTANT PROFESSOR** position to begin fall 2002. Successful candidate will demonstrate teaching excellence and develop an active research program involving undergraduates. Ph.D. required; postdoctoral experience preferred. Primary teaching responsibilities include participation in introductory biology course sequence, ecology, and upper-level courses in area of expertise. Opportunity is available to participate in the College's Environmental Studies program. Start-up funds available. In 2002, Natural Sciences will occupy the new Elton B. Stephens Science Center. For further information, see website: <http://panther.bsc.edu/~lpezzeme/biology.html/plant.html>. Review of applications will begin 15 December 2001. Submit letter of application, curriculum vitae, undergraduate and graduate transcripts, statements of teaching philosophy and of research interests, recent publications, and three letters of recommendation to: **Dr. Clyde Stanton, Chair, Division of Science and Mathematics, Box 549022, Birmingham-Southern College, Birmingham, AL 35254.** No e-mail applications. BSC complies with Alabama Child Protection Act. Equal Opportunity Employer.



The Faculty of Science of the University of Zürich  
invites applications for a

## Assistant Professorship in Inorganic Chemistry (tenure track)

preferably specializing in crystal engineering including such aspects as the design of solids and the formation of crystal architectures, templated crystal growth and the study of biogenic solid materials (biomineralization). Candidates should demonstrate an excellent publication record and have active research interests which complement the existing research groups of the Institute specializing in organometallic and bio-oriented coordination chemistry.

The new Professor should be appointed in the autumn of 2002, or as soon as possible thereafter. The appointment is for 3 + 3 years with the possibility for promotion to a tenured associate professorship after a minimum of three years. The candidates will be expected to participate in the teaching activities of the Institute including introductory and advanced courses for students of chemistry and related fields and to be able to teach in German at the latest after three years. Priority will be given to candidates under the age of 37.

Applications including a curriculum vitae, list of publications (the five key publications should be marked), outline of current and future research should be received not later than 15<sup>th</sup> November 2001 by the Dean of the Science Faculty at the following address: Professor K. Brassel, Dekanat der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland. The CV and list of publications should also be submitted in a single file to [jobsmnf@zuv.unizh.ch](mailto:jobsmnf@zuv.unizh.ch).

For additional information see also <http://www.unizh.ch/aci> or please contact Prof. H. Berke, Tel. ++41 1 635 46 81, Fax ++41 1 635 68 02, e-mail [hberke@aci.unizh.ch](mailto:hberke@aci.unizh.ch) Anorganisch-chemisches Institut, Winterthurerstrasse 190, CH-8057 Zürich.

## GLOBAL OPPORTUNITIES

### THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

#### The National Research Council and the US Army Medical and Materiel Command are seeking applications for a Postdoctoral Research Award

tenable at the **Armed Forces Research Institute of Medical Sciences**

The National Research Council (NRC) will offer a competitive award for postdoctoral research to be conducted in residence at the Armed Forces Research Institute of Medical Sciences in Bangkok, Thailand. The incumbent will investigate the exo-erythrocytic development of the human malaria parasites, *Plasmodium falciparum* and *P. vivax*. The ultimate goal of this research is to develop an *in vitro* model with which to validate the efficacy of candidate antimalarial drugs and vaccines; however, required research includes both basic and applied aspects of exo-erythrocytic parasite development. Areas of research include cell biology, molecular biology, biochemistry and immunology.

Duration of the award is two years with potential for extension. The annual stipend for recent Ph.D. recipients is \$39,270 and is appropriately higher for additional experience. Support is provided for relocation and limited professional travel and a health insurance program is offered.

Prospective applicants should contact Dr. Jetsumon Sattabongkot for more specific information regarding this research opportunity. Applicants will receive guidance in the formulation of a short (4-page) research proposal that is necessary for application.

Name **Dr. Jetsumon Sattabongkot, Ph.D.**  
Address **USAMC-AFRIMS, APO AP 96546 (from USA) or  
USAMC-AFRIMS, 315/6 Rajvithi Road, Bangkok 10400, Thailand (from outside the USA)**  
Telephone **66-2-644-4888 or 66-2-644-5777 (Thailand) Fax 66-2-246-8832**  
Email **jetsumonp@thai.amedd.army.mil or jetsumon@hotmail.com**  
URL **www.afrims.org (for details on AFRIMS)**

Applications must be submitted directly to the NRC. Postmark deadline for applications is January 15 for research to begin in early Spring of 2002. Application materials may be obtained from the NRC Web site at [www.national-academies.org/rap](http://www.national-academies.org/rap).

For questions or assistance, contact the National Research Council at:

Mail: Associateship Programs (TJ2114/AE)  
**National Research Council**  
2101 Constitution Ave NW, Washington, DC 20418

Tel: 202-334-2760 Fax: 202-334-2759 E-mail: [rap@nas.edu](mailto:rap@nas.edu)

Qualified applicants will be reviewed without regard to race, color, age, religion, sex or national origin.

**Science @**  
CAREERS

The search stops here.

career advice  
e mail job alerts  
graduate programs  
job postings

[www.sciencecareers.org](http://www.sciencecareers.org)



## POSITIONS OPEN

### FACULTY POSITION MOLECULAR MICROBIOLOGY Department of Microbiology The Ohio State University

Applications are invited for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Microbiology at The Ohio State University. Applicants must have a Ph.D. in microbiology or a related discipline and postdoctoral research experience, documented evidence of high-quality research, and a strong commitment to teaching and research at a major research university. The successful applicant will be expected to develop and maintain a productive research program with extramural support and to participate in teaching at the undergraduate and graduate levels. Preference will be given to individuals with expertise and a planned research program that emphasizes molecular approaches to microbial diversity, functional genomics, or environmental microbiology. The Department has increased by six new faculty since 1999 and a very competitive salary, modern research space, and an excellent start-up package are now available for an additional research-oriented scholar to join this growing and internationally recognized research community. To expedite the review process, applicants should send a copy of their curriculum vitae and a short description of their research interests by e-mail (e-mail: [microsearch@osu.edu](mailto:microsearch@osu.edu)) and also submit a letter of interest, curriculum vitae, description of future research plans, and the names of at least three potential references to: **Dr. Charles J. Daniels, Search Committee Chair, Department of Microbiology, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210-1292.** For a more detailed description of the Department, please visit website: <http://www.biosci.ohio-state.edu/microbio/>. To guarantee full consideration, applications must be received by October 19, 2001. OSU is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

### ASSISTANT PROFESSOR DEPARTMENT OF PHYSIOLOGY AND HEALTH SCIENCE Ball State University Muncie, Indiana

The Department of Physiology and Health Science is seeking applicants for a tenure-track position as an Assistant Professor in human anatomy and physiology beginning August 16, 2002. Primary responsibilities include teaching, scholarly activity, and service. Instructional responsibilities include introductory courses in human anatomy and physiology plus one or more upper-level/graduate courses. The successful candidate will be expected to conduct an active research program that should include undergraduate and Master's level students. Minimum qualifications: earned Doctorate and at least one academic year of successful teaching at the college or university level. Preferred qualifications: earned Doctorate in anatomy or related field, relevant postdoctoral training, two or more years of successful college or university teaching, experience in computer-assisted instruction, interest in teaching neuroanatomy, research experience in tissue and/or electron microscopy. Salary for the position will be commensurate with rank and experience. Tenure is not automatic but depends on meeting performance criteria.

Send letter of application including description of teaching and research interests, curriculum vitae, evidence of successful teaching experience, copies of undergraduate and graduate transcripts, and names of three references with contact information to: **Dr. Larry Ganion, Chairperson, Search Committee, Department of Physiology and Health Science, Ball State University, Muncie, IN 47306.** Website: <http://www.bsu.edu>. Review of applications will begin November 15, 2001, and will continue until the position is filled.

Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

## POSITIONS OPEN



### EXECUTIVE DIRECTOR INSTITUTE OF FOREST BIOTECHNOLOGY

The newly established Institute of Forest Biotechnology seeks founding Executive Director. Not a site for research, the Institute is a 501C3 private non-profit corporation working for societal, ecological, and economic benefits from appropriate uses of biotechnology in forestry worldwide. It emerged from the recognition by research, policy, public interest, and corporate parties that unfolding of forest biotechnology requires a credible catalyzing entity. Activities address three broad areas: science and research needs, policy, and societal implications. The Institute will forge innovative partnerships and engage diverse voices. It is currently located at the North Carolina Biotechnology Center. The Executive Director will be administrative, developmental, and policy leader and must display detailed familiarity with public policy, science, and technology issues of biotechnology, forestry, or a closely related field in the public or private sectors; 10 years of administrative experience; exceptional communication and fundraising skills; imagination; and proven ability to craft consensus and effective action among diverse parties. Salary is \$115,000 to \$132,000. For further information or to address letters of application: **Ms. Susan McCord, Project Manager, Institute of Forest Biotechnology, 15 T.W. Alexander Drive, P.O. Box 13399, Research Triangle Park, NC 27709 U.S.A. Telephone: 919-549-8889.** Review of applicants will begin October 22, 2001, and continue until a suitable candidate is identified. Job description and other content at website: <http://www.forestbiotech.org>.

### BIOPHYSICAL CHEMISTRY FACULTY POSITION Boston University

The Department of Chemistry at Boston University invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in experimental biophysical chemistry. The successful candidate will be expected to establish a vigorous and innovative research program at the interface of physical and biological chemistry and to participate in the undergraduate and graduate teaching activities of the Department. This position is part of a campuswide initiative to develop interdisciplinary research and teaching programs in key areas of biological importance and will commence September 2002. Candidates should submit curriculum vitae and a description of proposed research and arrange for three letters of recommendation to be sent to: **Professor Tom Tullius, Chair Department of Chemistry, Boston University, 590 Commonwealth Avenue, Boston, MA 02215-2521.** The deadline for receipt of applications is October 15, 2001. Boston University is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR Biological Modeling of Forest Trees

This is a 12-month, tenure-track position in biological process modeling that will be 70% research and 30% teaching in the School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida. Special emphasis will be on developing models that integrate biological information across spatial and temporal scales in managed forests. Complete job description, application details, and further information can be obtained at website: <http://www.sffc.ufl.edu/announce.html> or from **Dr. Tim White; Telephone: 352-846-0900; FAX: 352-846-1277; e-mail: [twhite@ufl.edu](mailto:twhite@ufl.edu).** Refer to Position Number 935050. Open until November 23, 2001. Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

## POSITIONS OPEN

### THE UNIVERSITY OF BRITISH COLUMBIA

The Department of Microbiology and Immunology, University of British Columbia, has three tenure-track positions available for Investigators whose research interests lie within one of the following areas: microbial environmental genomics, microbial ecology, microbial pathogenesis, antimicrobial drug development, and innate immunity. Two of the positions will be supported by the Canadian Research Chair Program that has been introduced by the Canadian government with the purpose of attracting or retaining outstanding Researchers. Appointments will be at the **ASSISTANT PROFESSOR** level, although suitably qualified applicants will be appointed at more senior levels. The Department of Microbiology and Immunology has a strong research record and a thriving graduate program. The Department is well equipped and has the resources for considerable infrastructure development over the next few years.

Interested individuals should send curriculum vitae, a summary of proposed research activity over the next five years, and the names of three references to: **Nancy Kan, Secretary to the Head, Department of Microbiology and Immunology, 300 - 6174 University Boulevard, Vancouver, BC V6T 1Z3 Canada. E-mail: [nkan@interchange.ubc.ca](mailto:nkan@interchange.ubc.ca).** The deadline for applications is November 30, 2001.

The University of British Columbia hires on the basis of merit and is committed to Employment Equity. We encourage all qualified persons to apply. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Applicants should identify citizenship and/or immigration status. In order to address underrepresentation of members of designated Equity groups among senior faculty, we may consider making an appointment at a higher rank for a woman, visible minority, disabled, or aboriginal applicant with exceptional qualifications.

### FACULTY POSITION IN HEMATOLOGY Washington University School of Medicine

The Division of Hematology invites applications from Physician-Scientists for a tenure-track position as **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants should have a strong background in basic research and potential for creative investigation in biomedical research and should be qualified to attend in hematology. The recruited faculty member will be able to devote about 80% of his/her time to laboratory-based research.

Applicants should submit curriculum vitae, statement of research experience and future research interests, and have three letters of recommendation sent to:

**Philip W. Majerus, M.D.  
Washington University School of Medicine  
660 South Euclid Avenue, Box 8125  
St. Louis, MO 63110**

Affirmative Action/Equal Opportunity Employer.

### INORGANIC CHEMISTRY FACULTY POSITION Boston University

The Department of Chemistry invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** in bioinorganic or inorganic chemistry. The successful candidate will be expected to establish a vigorous and innovative research program and to participate in the undergraduate and graduate teaching activities of the Department. This position is part of a campuswide initiative to develop interdisciplinary research and teaching in key areas of biological chemistry and inorganic materials science and will commence September 2002. Candidates should submit curriculum vitae and a description of proposed research and arrange for three letters of recommendation to be sent to: **Professor Tom Tullius, Chair, Department of Chemistry, Boston University, 590 Commonwealth Avenue, Boston MA 02215-2521.** The deadline for receipt of applications is October 15, 2001. Boston University is an Equal Opportunity/Affirmative Action Employer.

## IMMUNOLOGY OR CANCER BIOLOGY

### The University of California at Berkeley

The Department of Molecular and Cell Biology is seeking applications for a faculty position (ID #302) in the area of **Immunology or Cancer Biology**. The appointee is expected to join the faculty beginning July 1, 2002 or thereafter. Ph.D. and/or M.D. scientists should have demonstrated excellence, originality, and productivity in research, as well as an interest in undergraduate and graduate education. Research emphasis in immunology and/or cancer biology. Examples include infectious disease immunology, innate immunity, signal transduction, animal models of cancer and cancer immunology. Applications should include a curriculum vitae, bibliography, a brief description of research accomplishments, a two-page statement of research objectives and teaching interest, and reprints of the three most significant publications. Arrange to have three letters of reference sent to the address below. The appointment is to be made at the Assistant (tenure track) Professor level or at a more advanced (tenured) level, with preference to candidates who have received the Ph.D. within 15 years of the appointment date. Applications must be received by **November 15, 2001**.

**Department of Molecular & Cell Biology  
Chair, Immunology/Cancer Biology Search  
University of California  
401 Barker Hall #3202  
Berkeley, CA 94720-3202**

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



## UNIVERSITY OF CAMBRIDGE

Department of Pathology

### Division of Cellular and Molecular Pathology

#### Postdoctoral Positions

**£17,278 - £25,969**

Applications are invited for two postdoctoral scientists to join a programme investigating the growth control mechanisms operating at the level of DNA replication initiation in human tissues and their deregulation in cancer (EMBO 1998, 17:7219; JCS 2001, 114:2027). These studies will exploit recently established human cell-free *in vitro* DNA replication systems and will provide a basis for the design of novel diagnostic and therapeutic approaches targeting the DNA replication machinery (PNAS 1998, 95:14932; Lancet 1999, 354:1524). Candidates should have a strong background in molecular and/or cell biology and expertise in eu/prokaryotic protein expression systems would be advantageous. The positions are available for 5 years and are funded by a Cancer Research Campaign Programme Grant.

Informal enquiries to Dr Gareth H Williams, e-mail ks247@hermes.cam.ac.uk Tel. (01223) 333738. Fax. (01223) 333738. Applicants are requested to send a CV and the names and addresses of three academic referees to Mrs Melanie Brookes, Department of Pathology, University of Cambridge, Tennis Court Road, Cambridge. Closing date for applications: 19 October 2001.

The University is committed to equality of opportunity

### ACADEMIC FACILITIES COORDINATOR - PLANT TRANSFORMATION

The College of Natural and Agricultural Sciences at the University of California, Riverside, invites applications for the position of Academic Facilities Coordinator II with an academic career-track 11-month appointment. Salary for the position is commensurate with education and experience. The position will be available February 1, 2002. Under the general direction of the Chair of the Plant Transformation Facility Management Committee, the Academic Facilities Coordinator will be responsible for supervision, maintenance, and operation of the Plant Transformation Facility at the University of California, Riverside. This new facility is being developed in conjunction with the UCR Genomics Institute and the center for Plant Cell Biology. The successful applicant will be expected to manage the daily operation of a transformation laboratory, plant tissue culture rooms, *Arabidopsis* growth facility and greenhouses used for propagation of transgenic plants. He or she will supervise staff in performing routine transformation experiments and conduct cooperative research with faculty and other scientists in developing transformation systems. Applicants must have a Ph.D. in plant molecular biology or equivalent training and experience. A high level of expertise and experience in developing plant transformation systems is essential. Additional requirements include ability to develop innovative solutions to research problems and ability to supervise staff and to interact effectively with faculty and other researchers.

Letter of application, including curriculum vitae and three letters of reference should be sent to: **Dr. Mikeal L. Roose, Botany and Plant Sciences, University of California, Riverside, CA 92521-0124**. Additional information about the College of Natural and Agricultural Sciences can be found at: <http://cnas.ucr.edu>. Review of applications will begin December 1, 2001 and will continue until the position is filled.

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

### Assistant Professor - Environmental Toxicology UC Santa Cruz

The graduate program in Environmental Toxicology at the University of California, Santa Cruz invites applications for a tenure track position at the Assistant Professor level. We are interested in candidates with a strong, extramurally fundable research program with demonstrated expertise in organic contaminants in aquatic environments. This may include the introduction, transport, and the fate of organic contaminants in the environment, and the mechanisms underlying their metabolic fate and toxicity. The candidate will be expected to teach both graduate and undergraduate classes in Environmental Toxicology, and to actively participate in the ongoing development of the department and graduate program in Environmental Toxicology. Postdoctoral experience is preferred. The campus is especially interested in candidates who can contribute to the diversity and excellence of the academic community through their research, teaching and/or service.

**Rank:** Assistant Professor

**Salary:** \$46,100 - \$51,400

**Minimum Qualifications:** Ph.D. or equivalent in Biology, Biochemistry, Chemistry, Earth Science, Oceanography and/or Toxicology, or a related field completed or expected by effective date, a demonstrated record of research excellence and potential to obtain external funding, and a commitment to and talent for teaching at undergraduate and graduate levels. Position Available: July 1, 2002.

**Apply to:** Applicants should submit a curriculum vitae, a brief description of research and teaching interests, copies of reprints, and three confidential letters of recommendation to: **Chair, Environmental Toxicology Search Committee, Department of Environmental Toxicology, 269 Jack Baskin Engineering Bldg., University of California, Santa Cruz, CA 95064**. Please refer to Position #565 in all correspondence. **Closing Date:** January 2, 2002.

**Visit the Environmental Toxicology website at:**  
<http://natsci.ucsc.edu/acad/etox/>

*UCSC is an Affirmative Action/Equal Employment Opportunity Employer.  
Women and minorities are encouraged to apply.*



## POSITIONS OPEN

### ASSISTANT PROFESSOR CELL BIOLOGY Loyola University, New Orleans

The Department of Biological Sciences, Loyola University, New Orleans, is seeking to fill a tenure-track faculty position at the level of Assistant Professor for fall 2002. The Department is dedicated to excellence in undergraduate education and research. Departmental academic programs and resources are strong and growing (see [website: http://www.loyola.edu/~biology](http://www.loyola.edu/~biology)). The successful applicant will have a Ph.D. in the biological sciences, be committed to high-quality undergraduate teaching, and is expected to establish a strong research program with extramural funding which involves undergraduate students. This position will contribute to teaching introductory majors and nonmajors courses including cells and heredity, cell and molecular biology, and courses in their area of expertise. Biology faculty have established outstanding research collaborations with Researchers at nearby universities, federal research centers, and biomedical and public health laboratories, which have extended our already very positive research environment.

To apply, send your curriculum vitae; a copy of your graduate transcripts; statements of teaching and research interests and expertise; and at least three letters of reference to: **Biology Search Committee, Department of Biological Sciences, Loyola University, New Orleans, LA 70118.** We will begin reviewing applications on November 1, 2001, and will continue until the position is filled. *The Department of Biological Sciences seeks a highly qualified, diverse applicant pool and especially encourages members of underrepresented groups to apply. Loyola University is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS Institute for Cell Engineering The Johns Hopkins University School of Medicine

Applications are invited for full-time, tenure-track faculty positions at both junior and senior levels. Preference will be given to applicants with broad interests in the cellular and molecular aspects of neuroscience including neural regeneration and repair, stem cells, cell fate specification, axonal and dendritic targeting, and neurobiology of disease. Applicants should have a Ph.D. or M.D. and appropriate postdoctoral training. Faculty members are expected to establish or to have active, independent research programs and participate in teaching graduate and medical students.

Please send curriculum vitae, a brief description of current and future research interests, and arrange to have three letters of recommendation sent to:

**Ted M. Dawson, M.D., Ph.D.**  
Search Committee  
Institute for Cell Engineering  
The Johns Hopkins University  
School of Medicine  
600 North Wolfe Street, Carnegie 214  
Baltimore, MD 21287

*An Equal Employment Opportunity/Affirmative Action Employer.*

The Department of Molecular Biology at Princeton University invites applications for tenure-track faculty positions at the **ASSISTANT** or **SENIOR PROFESSOR** level. The candidates must be well trained in vertebrate genetics, developmental biology, cancer biology, or stem cell biology. We are seeking an innovative Scientist who enjoys working in an interactive environment. Candidates with an advanced degree (Ph.D. or M.D.) and postdoctoral research experience should send curriculum vitae, a short summary of research interests, and three letters of reference to: **Molecular Biology Search Committee, c/o Trisha Barney, Department of Molecular Biology, Princeton University, Princeton, NJ 08544.** For additional information about the Department, visit our [website: http://www.molbio.princeton.edu](http://www.molbio.princeton.edu). For full consideration, applications should be received by December 15, 2001. *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

The Department of Biological and Physical Sciences at Kennesaw State University, a comprehensive university in the University System of Georgia, invites applications for a position at the rank of **ASSISTANT PROFESSOR**. Applicants are sought with the expertise and interest in applying the tools of bioinformatics to one of several areas of biology (e.g., functional genomics, proteomics, computational biology) that complement existing strengths and expertise in the Department. Applicants should have demonstrated excellence in teaching at the college level and must also have an interest in developing a collaborative research program with other faculty in the Department. KSU places a strong emphasis on scholarship activities involving undergraduates. Therefore, applicants should have postdoctoral research experience and a strong potential for developing an externally funded research program. Applications will be accepted until the position is filled. To guarantee consideration, applications must be received by October 26, 2001. Application materials should include a letter describing the applicant's qualifications for the position; teaching philosophy and research interests; current curriculum vitae; graduate transcripts; and the names, addresses, telephone numbers, and e-mail addresses of three references. Send applications to: **Dr. Dale Vogeliien, Department of Biological and Physical Sciences, Mailbox 1202, Kennesaw State University, 1000 Chastain Road, Kennesaw, GA 30144-5591.** *KSU is an Affirmative Action/Equal Opportunity Employer.*

### FACULTY POSITION DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY Yale University

The Department of Molecular Biophysics and Biochemistry seeks applications for an **ASSISTANT PROFESSOR** in the fields of biochemistry, molecular biology, and molecular genetics. Our department spans a broad range of areas from structural to molecular biology and is located in both the Faculty of Arts and Sciences and the School of Medicine of the University. Applicants should include curriculum vitae, a statement of research interests, and selected reprints or preprints. Three letters of reference should be forwarded by the deadline. Applications should be sent to:

**Faculty Search Committee (Biochemistry)  
Department of Molecular Biophysics  
and Biochemistry  
Yale University  
260 Whitney Avenue, P. O. Box 208114  
New Haven, CT 06520-8114  
Telephone: 203-432-5593**

Application deadline: November 1, 2001. *Yale University is an Affirmative Action/Equal Opportunity Employer.*

**PHYSICAL CHEMISTRY.** The University of Michigan, Ann Arbor, seeks outstanding candidates for two faculty positions in physical chemistry to begin fall 2002. One opening is for an experimental Physical Chemist at the **ASSISTANT PROFESSOR** level, although more senior applicants may also be considered. The second opening is for a theorist at any level with preference given to senior candidates. We especially encourage applicants with interests that complement the University of Michigan's strengths in biophysical chemistry, materials chemistry, and spectroscopy. Candidates must have a Ph.D. in a relevant field and postdoctoral experience and are expected to develop internationally recognized programs of scholarly research as well as excellence in teaching at the undergraduate and graduate level. Candidates should send curriculum vitae and a description of research projects and arrange for three letters of recommendation to be sent to: **Professor Joseph P. Marino, Chairman, Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055.** Completed applications will be reviewed as they arrive, with interviews beginning September 2001. Review of applications will be continued until the positions are filled. *The University of Michigan is a nondiscriminatory Affirmative Action Employer.*

## POSITIONS OPEN

### CELL BIOLOGY University of Toronto at Scarborough

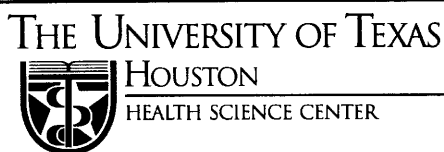
The Division of Life Sciences, University of Toronto at Scarborough, invites applications for a tenure-track position in cell biology. Any area of eukaryotic cell biology will be considered. Applicants must have a Ph.D. (or equivalent) and one or more years of postdoctoral experience. The successful candidate will be expected to develop a strong research program and to take an active role in both undergraduate and graduate teaching. For information on research and teaching strengths in the Division, please consult the Divisional [website: http://www.utoronto.ca/~lifesci/index.html](http://www.utoronto.ca/~lifesci/index.html). Interested applicants should submit complete curriculum vitae (that should include individual statements of research and teaching interests) and a copy of recent reprints and arrange to have three letters of recommendation (including comments on teaching ability, publications, and research potential) sent from the references. All materials should be addressed to: **Professor John H. Youson, Chair, Division of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, Ontario M1C 1A4 Canada.** Closing date for applications is January 1, 2002. The appointment will be at the **ASSISTANT PROFESSOR** level and salary will be commensurate with qualifications. The position will be effective July 1, 2002. *The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.*

### FACULTY POSITIONS Synthetic, Organic, and Bioorganic Chemistry The University of Texas Southwestern Medical Center

The Department of Biochemistry at The University of Texas Southwestern Medical Center announces the availability of **TENURE-TRACK APPOINTMENTS** for Ph.D. and/or M.D./Ph.D. Scientists having expertise in synthetic, organic, and/or bioorganic chemistry. U.T. Southwestern maintains state-of-the-art facilities and employs a faculty including four Nobel Laureates and 14 members of the National Academy of Sciences. The Biochemistry Department offers a vibrant environment for interdisciplinary research, attractive start-up support, and participation in graduate-level teaching. For more information, visit the Biochemistry Department [website: http://biochemistry.swmed.edu](http://biochemistry.swmed.edu). Applicants should submit curriculum vitae; description of research interests; and three references letters by October 31, 2001, to: **Steven McKnight, Chair, Department of Biochemistry, U.T. Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-9038.** *The University of Texas Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

### COMPARATIVE ANIMAL PHYSIOLOGIST

Sweet Briar College seeks a broadly trained Animal Biologist for a tenure-track **ASSISTANT PROFESSOR** position to begin August 2002. The Ph.D., demonstrated interest in undergraduate teaching, and research program suitable for undergraduate participation are required. Teaching will include comparative animal physiology, introductory biology, vertebrate morphology, courses in the area of expertise, and research supervision. Sweet Briar, located on 3,300 acres near the Blue Ridge Mountains in central Virginia, is a nationally ranked, selective, independent liberal arts and sciences college for women. Review of applications will begin 26 October 2001 and continue until the position is filled. Please submit a letter of application, curriculum vitae, graduate transcripts, statements of teaching and research interests, and three letters of recommendation sent to: **Dr. Linda Fink, Department of Biology, Sweet Briar College, Sweet Briar, VA 24595.** E-mail: [lfink@sbcc.edu](mailto:lfink@sbcc.edu). *Equal Opportunity Employer.*



**Department of Microbiology and  
Molecular Genetics  
Seeks Assistant Professor**

The Department of Microbiology & Molecular Genetics at The University of Texas Medical School at Houston, seeks an exceptional scientist for a tenure track position at the Assistant Professor level. The successful candidate should have a Ph.D. and/or M.D., and several years postdoctoral experience. Excellence in research is of greater significance than the particular area of research; however, the Department is especially interested in research areas involving eukaryotic microbial molecular genetics, physiology and genomics. The successful candidate will join a department with strengths in the area of cell signaling, signal transduction and the molecular genetics of prokaryotes and lower eukaryotic microbes involving a diversity of microbial systems. The successful candidate will receive a competitive salary and start-up package and will be expected to participate in teaching graduate students and medical students. Applicants should submit a curriculum vitae, the names of at least three references and a statement of their research goals and interests, including a description of how their research program reflects the future directions of microbiology. For full consideration, completed applications should be submitted by December 1, 2001. Applications should be submitted to:

**Samuel Kaplan, Ph.D.**  
**Microbiology & Molecular Genetics**  
**The University of Texas Medical School**  
**PO Box 20708**  
**Houston TX 77225**  
**(713) 500-5502**  
**Fax: (713) 500-5499**  
**E-mail: Samuel.Kaplan@uth.tmc.edu**  
**Web Address: www-mmgi.uth.tmc.edu**

*The University of Texas Health Science Center-Houston is an Equal Opportunity Employer/Women and Minorities are encouraged to apply.*

**Georg-August-Universität Göttingen**  
**Bereich Humanmedizin**  
**Universitätsklinikum - Medizinische Fakultät**  
**Zentrum Physiologie und Pathophysiologie**



In our neuroscience research group focused on the combination of molecular and cellular biology

**1 Post doc Position (BAT II a)  
and several graduate student positions  
(BAT II a / 2 or comparable stipend)**

are available. Candidates with a background in either patch clamp recording, microfluorometric imaging or laser scanning microscopy are strongly encouraged to apply. The focus of our research is the molecular cascade associated with neurodegenerative diseases like amyotrophic lateral sclerosis, which is investigated by using patch clamp recordings from transgenic mice, microfluorometric imaging and laser scanning microscopy.

The University of Göttingen is committed to increasing representation of women and handicapped scientists on its medical faculty and particularly encourages applicants from such candidates.

Candidates interested in either one of the advertised positions should contact: Priv. Doz. Dr. Bernhard U. Keller, Zentrum Physiologie und Pathophysiologie, Humboldtallee 23, 37073 Göttingen, Tel.: +49 (0)551-395921, Fax: +49 (0)551-395923, e-mail: bkeller@neuro-physiol.med.uni-goettingen.de



When curiosity is developed to its full potential, great discoveries are made. At Pharmacia Corporation, we invest more than \$2 billion a year in R&D with major activities focused in the areas of arthritis/inflammation, cancer, infectious diseases, cardiovascular and metabolic diseases, and disorders of the central nervous system. Exciting opportunities now exist in Kalamazoo, Michigan.

**CRYSTALLOGRAPHY BIOCHEMIST**

As a member of the Macromolecular Crystallography laboratory, you will prepare crystals of biological samples and preliminary analysis by diffraction methods and prepare and characterize enzyme/inhibitor co-crystals. The successful applicant will design, implement, and analyze a variety of macromolecular crystallization experiments, cryo-protect crystalline samples, collect single crystal diffraction data, and process data for structure determination. BS/MS degree required. Experience with Web-based programming methods (HTML, Java, Perl) and solving/refining macromolecular structures is desirable. Req. #01-2701

**POSTDOCTORAL RESEARCH ASSOCIATE,  
PROTEIN CRYSTALLOGRAPHY**

This postdoctoral opportunity is a contract position, engaged through Quantum Resources, a third-party employer. The selected candidate will work under the supervision of a Pharmacia scientist. We seek a highly motivated individual to join our multidisciplinary Macromolecular Crystallography group focused on structure-based drug design of new antibacterials. Specifically, this will involve challenging structural studies of novel antibacterial targets and associated protein-inhibitor complexes. You will need a PhD in Biochemistry, Biophysics or related field with significant laboratory research experience in crystallographic structure determination. Laboratory experience in molecular biology and protein chemistry is highly desirable. For confidential consideration, please send your resume, indicating your interest in the Protein Crystallography Postdoctoral Position, to: Beryl Galer, Quantum Resources, 8191 Moorsbridge Road, Suite G, Kalamazoo, MI 49024. Email: bgaler@quantum-res.com.

We offer generous compensation and benefits, performance rewards, and entrepreneurial opportunities for personal and career development. To apply, please visit our website. You may search by keyword or Req. #. When responding, please indicate in your cover the position and location of your interest, referencing "Science." Or you may fax your resume to the Pharmacia Resume Processing Center, noting the information above along with the appropriate Req. #, at 520-287-0963. EEO/AA employer M/F/D/V.

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

**PHARMACIA**

## POSITIONS OPEN

### ASSISTANT PROFESSOR PHARMACOLOGY AND TOXICOLOGY Indiana University School of Medicine

The Medical Sciences Program of the Indiana University School of Medicine in Bloomington invites applications from candidates with at least two years of postdoctoral experience and a strong publication record for a 12-month, tenure-track position as Assistant Professor of Pharmacology and Toxicology starting July 2002. The successful applicant is expected to participate in teaching pharmacology to medical and graduate students and to establish an extramurally funded, independent research program asking questions of fundamental importance to human neoplastic disease. The Program also wants to strengthen existing ties with the NCI-designated Cancer Research Institute and the Indiana Genomics Initiative. Preference will be given to those candidates who can document both teaching and cancer research expertise and whose research interests complement those of current faculty. More information may be obtained from website: <http://www.indiana.edu/~medsci/>. Applicants should send curriculum vitae; a statement of teaching commitment and philosophy; a summary of current and anticipated research activities; and arrange to have three letters of reference sent by November 15, 2001, to: Pharmacology Search Committee, Medical Sciences Program, Indiana University School of Medicine, Jordan Hall, Bloomington, IN 47405-4201.

Indiana University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### WESTMINSTER COLLEGE Salt Lake City, Utah

The Biology Program seeks a dedicated colleague beginning fall semester 2002 in neurobiology and/or developmental biology. The successful candidate will conduct research with undergraduates and contribute to the introductory, advanced, and liberal education biology courses. Requirements: earned Doctorate, demonstrated teaching excellence, commitment to professional activity, and use of information technology. Applicants should submit a letter of application, comprehensive curriculum vitae, statements of teaching philosophy and research interests, transcripts, and the names and telephone numbers of at least five references to: Dr. Mary Jane Chase, School of Arts and Sciences, Westminster College, 1840 South 1300 East, Salt Lake City, UT 84105 by December 1, 2001. Review of applications will begin in the fall and continue until the position is filled. Westminster College is an Equal Opportunity Employer committed to a diversified workforce. Therefore all qualified applicants regardless of race, color, national origin, sex, age, disability, or veteran status are strongly encouraged to apply.

### RESEARCH ASSOCIATE

Harbor—UCLA Research and Education Institute is an internationally acclaimed leader in research. We are seeking an individual to do basic molecular biology research (gene cloning and promoter analysis). To qualify for this position, you will need a Ph.D. degree, molecular biology and/or biochemist, background and experience, computer literate, good English communication skills. Salary: \$1,167 to \$1,459 semi-monthly depending on experience. Excellent benefits.

Résumés can be submitted using our website: <http://www.rei.edu/hr/>; FAX: 310-222-3640. Refer to Job Number 17.

Equal Employment/Affirmative Action/drug-free Employer.

**RESEARCH ASSOCIATE POSITION** to conduct studies on the regulation of hypoxia-inducible Factor 1 by nitric oxide. Qualified applicants will have a Ph.D. in biochemistry, molecular biology, or related field. Knowledge of nitric oxide chemistry and/or protein ubiquitination are preferred. Send curriculum vitae and arrange for three letters of recommendation to be sent to: Dr. Lisa Palmer, Department of Pediatrics, P. O. Box 801335, University of Virginia, Charlottesville, VA 22908. Telephone: 434-924-2132; e-mail: [lap5w@virginia.edu](mailto:lap5w@virginia.edu). The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR POSITION IN MICROBIOLOGY Central Michigan University

The Department of Biology invites applications from broadly trained individuals for an Assistant Professor tenure-track position in microbiology beginning August 2002 or earlier. Candidates are expected to have a Ph.D. in the biological sciences; excellent verbal and written communication skills; and demonstrate a strong commitment to and potential for teaching, research, and external funding. Postdoctoral experience is preferred. Teaching responsibilities include microbiology, instruction in the individual's areas(s) of expertise at the undergraduate and M.S. levels, and ability to contribute to the Department's introductory program. Background in environmental microbiology preferred. Submit a letter of application, curriculum vitae, copies of all transcripts, statement of teaching philosophy and statement of proposed research plans, and three letters of recommendation to: Microbiology Search Committee, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859. Review of applications will begin November 1, 2001, and continue until position is filled. Departmental information is available at website: <http://www.cst.cmich.edu/units/bio>. Serving more than 27,000 students, Central Michigan University is an innovative, Doctoral/research-intensive institution recognized for strong undergraduate education and a range of focused graduate programs and research. CMU, an Affirmative Action/Equal Opportunity Institution, is strongly and actively committed to increasing diversity within its community. (See website: <http://www.cmich.edu/aaco/>.)

### TENURE-TRACK ASSISTANT PROFESSOR POSITION Microbial Pathogenesis

The Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, has a tenure-track Assistant Professor position available for research on the molecular pathogenesis of infectious diseases. Applicants with substantial experience and funding will also be considered for appointment at the Associate Professor level. Individuals studying interactions between host cells and pathogenic bacteria, protozoa, or fungi are especially encouraged to apply. The successful applicant will join a vigorous research department with existing strength in bacterial, viral, and protozoal pathogenesis. The University of Pittsburgh School of Medicine is a top 10 NIH-funded medical school located in one of America's most liveable cities.

Requirements include a Ph.D. or M.D. and relevant postdoctoral training. Candidates will be expected to develop an independent, externally funded research program and to excel in teaching graduate and medical students.

Send curriculum vitae, brief statement of research interests, and three letters of reference to:

Dr. Joseph C. Glorioso, Chairman  
Department of Molecular  
Genetics and Biochemistry  
University of Pittsburgh School of Medicine  
E1240 Biomedical Science Tower  
Pittsburgh, PA 15261

Preference will be given to candidates whose completed applications are received by December 31, 2001. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

Applications are invited for a non-tenure-track faculty position at the ASSISTANT PROFESSOR level to conduct a transcription profiling study on renal epithelial cells. Candidates must have a Ph.D. in physiology, expertise in cellular and molecular techniques, and experience with microarray technology. Interested and qualified individuals should send curriculum vitae and should request three letters of recommendation to: Paul A. Welling, Department of Physiology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201. Applications accepted until October 15, 2001.

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF CHEMISTRY Georgia Southern University

Applications are invited for a full-time, tenure-track position in biochemistry to begin August 1, 2002. Qualifications include a Ph.D. in biochemistry or a Ph.D. in chemistry with expertise in the area of biochemistry by time of appointment, with preference given to a Biochemist with expertise in the area of molecular biology and with postdoctoral experience. A commitment to teaching undergraduate chemistry at all levels is expected. The successful candidate will also demonstrate a commitment to undergraduate education and will be expected to develop an active research program involving undergraduate students. Applicants must have command of written and spoken English, and their curriculum vitae must provide evidence of strong teaching and research abilities. Salary commensurate with qualifications and experience. For additional information, see departmental website: <http://www2.gasou.edu/chemdept>.

Applicants should send curriculum vitae, photocopies of undergraduate and graduate transcripts, a statement of teaching philosophy, a description of proposed research (five pages or less), and three letters of reference to: Dr. Jeff Orvis, Search Chair, Georgia Southern University, Department of Chemistry, P. O. Box 8064, Statesboro, GA 30460-8064. Application materials must be postmarked by November 1, 2001. The names of applicants and nominees, résumés, and other general nonevaluative information may be subject to public inspection under the Georgia Open Records Act. Georgia Southern University, a regional university in the University System of Georgia, is an Equal Opportunity/Affirmative Action Institution. Individuals who need reasonable accommodations under the Americans With Disabilities Act in order to participate in the search process should notify the Search Chair.

### TENURE-TRACK FACULTY POSITION DEVELOPMENTAL BIOLOGY

The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track ASSISTANT PROFESSOR position in developmental biology to begin in August 2002. The position is open to all areas of eukaryotic developmental biology. Areas of interest include but are not limited to developmental neurobiology, evolution of development, fertilization biology, and plant developmental biology. A Ph.D. or equivalent degree and postdoctoral experience are required. The successful candidate will be expected to maintain a vigorous, extramurally funded research program and contribute to undergraduate and graduate teaching. The Department of Biological Sciences has recently expanded into the new 70,000 square foot Life Sciences Annex and offers competitive start-up packages. We anticipate hiring at the Assistant Professor level, but applications from exceptional Associate Professor candidates will be considered. Applicants should submit curriculum vitae, statements of research and teaching interests, copies of relevant papers, and arrange to have three letters of recommendation sent to: Developmental Biology Search, c/o Dr. John C. Larkin, Department of Biological Sciences, Louisiana State University, 202 Life Sciences Building, Baton Rouge, LA 70803, Reference Log Number 0313. Additional information about the Department is available at website: <http://www.biology.lsu.edu>. Inquiries may be sent by e-mail: [jlarkin@univ1.sncc.lsu.edu](mailto:jlarkin@univ1.sncc.lsu.edu). Review of applications will begin November 1, 2001, and continue until the position is filled. LSU is an Equal Opportunity/Equal Access Employer.

Biology at Alfred University, Alfred, New York, seeks ASSISTANT PROFESSOR in tenure-track position in animal physiology beginning fall semester 2002. Candidates with a Ph.D. and a strong commitment to teaching and research in a liberal arts setting are encouraged to apply. Primary responsibilities include courses in comparative and human physiology and a research program involving undergraduate students. See website: <http://bio.alfred.edu> for details and application requirements. Formal review of applications will begin October 15, 2001, and continue until position is filled. Affirmative Action/Equal Opportunity Employer.

# Opportunities



## Ohio Eminent Scholarship in Developmental Neurobiology

### Division of Developmental Biology

We seek an outstanding developmental neurobiologist for this position endowed by the Ohio Board of Regents. The eminent scholar will be an associate or full Professor in the Division of Developmental Biology, directed by Chris Wylie, Ph.D., and will provide academic leadership to a group of developmental neurobiologists in this division. The Ohio Eminent Scholarship will provide permanent annual endowment for this position. Teaching and administrative duties are minimal.

We offer excellent NIH-funded graduate programs in neurosciences, developmental biology and MD/PhD. This position is part of the dramatic expansion of the Developmental Biology Division to an eventual 25 members. Innovative, high-quality, federally funded research into nervous system development in any model organism will be the primary criterion for this position.

Please provide curriculum vitae, names and addresses of three references, and a 2-page description of research interests to:

**Chris Wylie, Ph.D., Chair, Ohio Eminent Scholar Search Committee**  
 Division of Developmental Biology  
 Children's Hospital Research Foundation  
 TCHRF 3014  
 3333 Burnet Avenue  
 Cincinnati, OH 45229-3039  
 EminentScholar@chmcc.org

## Assistant/Associate/ Full Professor

### Division of Developmental Biology

Join the growing Division of Developmental Biology at Children's Hospital Research Foundation, Cincinnati, Ohio, under the directorship of Chris Wylie, Ph.D.

We seek additional faculty for the coming year. Preferred candidates are working on invertebrate model systems, but those carrying out innovative, high quality research in any system will be considered. Academic rank will be determined by candidate's credentials and experience.

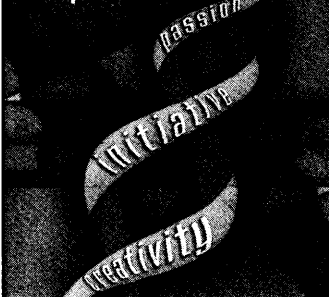
We offer outstanding start-up packages, state-of-the-art research facilities, an excellent graduate program and modest teaching responsibilities.

Please provide curriculum vitae, names and addresses of three references, and a description of research interests to:

**Janet Heasman, Ph.D., Chair, Search Committee**  
 Division of Developmental Biology  
 Children's Hospital Research Foundation  
 TCHRF 3014  
 3333 Burnet Avenue  
 Cincinnati, OH 45229  
 DevBiol@chmcc.org

Visit our website at [www.cincinnatichildrens.org](http://www.cincinnatichildrens.org) Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

## Inquire Within



**Genentech's people share some pretty uncommon traits. Initiative, creativity, risk-taking – the stuff from which breakthrough medicines are created. Expect the extraordinary. Share your traits with us.**

### Scientist/Sr. Scientist

Working in our Molecular Biology department, you will develop methods to enhance the expression of recombinant proteins in eukaryotic cells. You must have a PhD with 3+ years of postdoctoral experience. Candidates with additional experience are encouraged to apply. Demonstrated proficiency in areas of gene cloning, vector construction, mutagenesis and cell line characterization is essential. Expertise in site-specific integration, mRNA processing, glycosylation or cell cycle control is advantageous.

To apply, please email your resume, indicating Job Code 3955-SCI, to [ebb@gene.com](mailto:ebb@gene.com) (place Job Code in the subject field; ASCII files only). Or mail to Genentech, Inc., Attn: Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Genentech is an Equal Opportunity Employer.

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

**Genentech, Inc.**  
 IN BUSINESS FOR LIFE  25 YEARS



**CBG**

Max Planck Institute  
 of Molecular Cell Biology  
 and Genetics

## Postdoctoral Positions in Developmental Biology / Cell Biology

The Max-Planck-Institute of Molecular Cell Biology and Genetics is offering postdoctoral positions to highly motivated researchers in Developmental / Cell Biology. We are interested in the molecular and cellular mechanisms that underlie morphogenesis during zebrafish gastrulation, using a combination of molecular genetic and cell biological techniques (Nature 405, 76-81).

The positions are available immediately and the appointment will be initially for two years. Qualified candidates interested in joining a young and motivated team at the recently established Max-Planck-Institute in Dresden are encouraged to apply. Please send CV, names of 3 references, and a brief statement of research interests to:

Carl-Philipp Heisenberg  
 Max-Planck-Institute of  
 Molecular Cell Biology and Genetics  
 Pfotenhauerstrasse 108  
 01307 Dresden  
 Germany  
[heisenberg@mpi-cbg.de](mailto:heisenberg@mpi-cbg.de)  
[www.mpi-cbg.de](http://www.mpi-cbg.de)

## POSITIONS OPEN

The Department of Bacteriology at the University of Wisconsin-Madison invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Outstanding individuals who have been recently tenured in their home institution will also be considered. The Department seeks to hire an integrative Microbial Physiologist who uses modern molecular, computational, and genomic technologies to dissect the metabolic logic or regulatory networks that dictate the survival of a microorganism in a given environment. A Ph.D. degree and postdoctoral experience are required. The successful candidate is expected to establish a dynamic and extramurally funded research program, to participate in the undergraduate and graduate teaching missions of the Department, and to be an active contributor to the microbiology community on campus. The University of Wisconsin-Madison provides an excellent research environment and maintains a student population of outstanding quality. Salary and fringe benefits are nationally competitive.

Please send detailed curriculum vitae including research accomplishments, a statement of research and professional goals, a statement of teaching interests and relevant experience, and three letters of reference to: **Jorge Escalante-Semerena, Search Committee Chair, Department of Bacteriology, University of Wisconsin, 1550 Linden Drive, Madison, WI 53706-1567.** Applications submitted before or on November 15, 2001, will be assured of consideration. *The UW-Madison is an Equal Opportunity/Affirmative Action Employer; women and members of underrepresented minorities are strongly encouraged to apply. Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality.*

### STAFF SCIENTIST POSITION DEPARTMENT OF CHEMISTRY University of Montana

The Department of Chemistry at the University of Montana, Missoula, Montana, seeks a Staff Scientist to coordinate the application of modern spectroscopic techniques to physical biochemistry and structural biology. The successful candidate will hold a Ph.D. in chemistry, biochemistry, or a related field. To help support research in the Center for Neurosciences and in structural biology in the Departments of Chemistry, Pharmaceutical Sciences, and Biological Sciences, this person will have experience in one or more spectroscopic techniques. These methods include time-resolved fluorescence; vibrational, NMR, and EPR spectroscopies; and confocal microscopy. Duties will involve training of users and routine maintenance of associated instrumentation. Establishment of an independent research program and collaborations with faculty on research of mutual interest is strongly encouraged. Salary will be \$36,000 per year plus benefits. The appointment is for one year beginning after January 1, 2002, with the possibility for perennial renewal. Applications should include curriculum vitae, summary of research experience and interests, and three letters of reference. Application deadline is November 15, 2001. Please direct all applications to: **Professor Edward Rosenberg, Chair, Department of Chemistry, University of Montana, Missoula, MT 59812.** For more information about the Department of Chemistry, please see website: <http://www.cas.umt.edu/chem/>. *The University of Montana is an Equal Opportunity Employer and strongly encourages applications from women and minorities.*

**RESEARCH INVESTIGATOR or POSTDOCTORAL FELLOW:** Position available for a Virologist or Microbiologist to study the mechanisms of sexual transmission of HIV or other sexually transmitted pathogens. The candidate will also assay new compounds designed for vaginal use in preventing STDs. Send letter of interest or contact: **Dr. David Phillips, Population Council, 1230 York Avenue, CBR, New York, NY 10021. Telephone: 212-327-8744; FAX: 212-327-7678; e-mail: dphillips@popcouncil.org; website: www.popcouncil.org.**

*Affirmative Action/Equal Opportunity Employer; Minorities/Females.*

## POSITIONS OPEN

### FACULTY POSITION ECOLOGY-EVOLUTION

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area ecology-evolution beginning September 2002 pending budgetary approval. Applications are invited from excellent candidates in any area of ecology or evolution. We are especially interested in molecular, physiological or ecosystem Scientists. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but candidates with outstanding records will be considered at higher rank. Our expanding ecology and evolution program has excellent research and teaching facilities on campus and at the University's Pymatuning Laboratory of Ecology. The successful candidate must have a Ph.D. and postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by October 15, 2001. Applicants should send a curriculum vitae along with a summary of research interests and goals and arrange to have at least three letters of reference sent to:

**Ecology-Evolution Search Committee  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260  
Telephone: 412-624-4266**

Further information on the Department of Biological Sciences is available at website: <http://www.pitt.edu/~biology>. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups underrepresented in academia are especially encouraged to apply.*

### THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER The Endowment for Scholars in Biomedical Research

UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **ASSISTANT PROFESSOR** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary as well as research space will be provided by the medical school department or research center offering the appointment. Positions in both basic science and clinical departments are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young Investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our website: [http://www.utswestern.edu/home\\_pages/scholars/](http://www.utswestern.edu/home_pages/scholars/). **Southwestern, The University of Texas Southwestern Medical Center at Dallas.**

*UT Southwestern is an Equal Opportunity Institution.*

**UNIVERSITY OF CHICAGO:** Two **RESEARCH ASSOCIATE** positions (**POSTDOCTORAL** levels) are available to study mechanisms of learning and memory by using advanced genetic manipulation techniques (*Nature* 401:63-69, 1999; *Science* 209:1170-1174, 2000). Candidates must possess a recent Ph.D., M.D./Ph.D., or equivalent degree. Previous experience in mouse embryo pronuclear injection and/or ES cell culture is desired. Strong interpersonal and communication skills are required. Interested candidates should send their curriculum vitae, a brief description of past experience and research interests, and names of three references (postal and e-mail addresses and telephone numbers) to: **Dr. Ya-Ping Tang, Department of Psychiatry, The University of Chicago, Knapp Research Center, R-020, 924 East 57th Street, Chicago, IL 60637. E-mail: yptang@delphi.bsd.uchicago.edu.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### FACULTY POSITION Cell and Developmental Biology Carnegie Mellon University

The Department of Biological Sciences at Carnegie Mellon University seeks to fill up to two **TENURE-TRACK POSITIONS** in cell or developmental biology. Carnegie Mellon has a long history of interdisciplinary research with strengths in light microscopy, magnetic imaging, and computation. Research programs of current faculty include the areas of cell/developmental biology, genetics/molecular biology, and biochemistry/biophysics with recent expansion in computational biology and neuroscience (see departmental website: <http://www.cmu.edu/bio/>). Successful candidates will be expected to develop strong, innovative research programs and to participate in the undergraduate and graduate educational programs. Candidates must have a Doctoral degree and strong research credentials.

Please send curriculum vitae, a statement of research interests, and three letters of recommendation to: **Dr. Jonathan Minden, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213.** The deadline for applications is November 15, 2001. *Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

### TENURE-TRACK FACULTY POSITION Experimental Biological Physics/ Condensed Matter Physics Carnegie Mellon University

The Department of Physics at Carnegie Mellon University invites applications for a tenure-track position in experimental biological physics and/or condensed matter physics. We seek an individual of exceptional ability and promise to establish a vigorous research program. Excellent candidates in any area of specialization will be considered. Preference will be given to candidates likely to interact synergistically with current projects and facilities in Physics (see website: <http://info.phys.cmu.edu>) or other departments at Carnegie Mellon. A senior-level appointment may be considered under special circumstances. Applicants should send their curriculum vitae; publication list; a statement of research and teaching interests; and have at least three letters of reference sent to: **Professor Stephen Garoff, Physics Department, Carnegie Mellon University, Pittsburgh, PA 15213** before November 15, 2001. *Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL FELLOW

Postdoctoral Fellow position available immediately for a functional genomics study of mechanisms underlying CNS plasticity with drugs of abuse. DNA array expression profiling is being used to identify gene regulation networks operant in behavioral responses to acute drug exposure or sensitization. Exposure to state-of-the-art approaches in DNA arrays and bioinformatics is offered. Experience in neuroscience is required and expertise with molecular biology preferred. Send curriculum vitae and three references to: **Michael Miles, M.D., Ph.D., Department of Pharmacology and Toxicology, Virginia Commonwealth University, P.O. Box 980599, Richmond, VA 23298. E-mail: mfmiles@vcu.edu.**

**RESEARCH ASSOCIATE PROFESSOR:** Position available in a well-established cancer research laboratory. Job responsibilities include establishing a productive research project, overseeing graduate students and Postdoctoral Fellows, and some laboratory administration duties. Essential requirements include scientific writing skills and completion of a Postdoctoral Fellowship in molecular or cancer biology. Generous salary support provided. Please send curriculum vitae and three letters of recommendation to: **Raymond N. DuBois, M.D., Ph.D., c/o Tammy Cagle, Department of Medicine/GI, C2104 MCN, Vanderbilt University Medical Center, Nashville, TN 37232-2279.** *An Equal Opportunity/Affirmative Action Employer.*



Nature Publishing Group is expanding the Manhattan-based editorial teams responsible for producing the prestigious journals *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Biotechnology*, *Nature Neuroscience* and *Nature Immunology*. These positions offer exciting opportunities to remain intellectually engaged in a broad range of cutting-edge biomedical research, while leaving benchwork and funding concerns behind.

Applicants should have a broad understanding of and intense curiosity about science, and a strong research background in a relevant area, including a PhD and preferably postdoctoral experience. The ideal candidates will also have excellent literary skills and a commitment to the communication of science. Responsibilities will include evaluating manuscripts, overseeing the review process, commissioning and editing News & Views articles and writing news items and editorials. Editors must be willing to travel, and are expected to attend scientific meetings in the US and elsewhere, as well as visiting laboratories and maintaining alliances with the international scientific community.

## THE FOLLOWING POSITIONS ARE NOW AVAILABLE:

### *nature* **genetics**

#### **Seeks an Assistant Editor.**

The successful candidate will have the opportunity to participate in building a new genomics web site. Applicants should have a strong research background in genetics (expertise in microarray analysis preferred).

### *nature* **immunology**

**Seeks an Assistant Editor** with a strong background in any area of immunology. Preference will be given to candidates who demonstrate knowledge and enthusiasm for the signaling pathways critical to the activation and control of immune responses.

### *nature* **medicine**

#### **Seeks an Assistant Editor and a News & Views Editor.**

For the Assistant Editor position, a strong background in immunology is preferred but not essential. The News & Views candidate should hold a PhD in any area of biomedical research, and have a lively and broad interest in science and excellent editing skills.

### *nature* **structural biology**

**Seeks an Assistant Editor** with a strong research background in molecular biology, biochemistry or structural biology.

Please submit a curriculum vitae, a short (500-1000 words) News & Views style article on an exciting and newsworthy recent development in a relevant scientific area and a cover letter specifying which position you are applying for and explaining your interest in that position to: M Maddock, Human Resources Dept, 345 Park Avenue South, New York, NY 10010, USA. (fax: 212-696-9594, email: [admin@natureny.com](mailto:admin@natureny.com))



## POSITIONS OPEN

### ECOLOGIST: ASSISTANT PROFESSOR MOLECULAR GENETICS: SENIOR POSITION

#### Faculty Positions, Texas Tech University

The Department of Biological Sciences invites applications for a tenure-track position in ecology and a senior position in molecular genetics beginning September 2002. Requirements include a Doctoral degree and a commitment to excellence in research and teaching. We seek a broadly trained Ecologist with research interests in population dynamics, invasive species, metapopulations, multispecies interactions, habitat fragmentation, or life history strategies. Teaching responsibilities could include introductory ecology and upper-level and graduate courses. We seek an established Molecular Geneticist who will bring a nationally recognized, extramurally funded research program aimed at understanding gene function using molecular genetic approaches. The area of research is open. Teaching responsibilities could include introductory genetics and an advanced specialty course. Academic rank and salary will depend on the successful candidate's qualifications and experience. The deadline for completed applications is November 1, 2001. Applicants must submit a description of research goals, teaching interests and philosophy, curriculum vitae, three representative reprints, and arrange to have three letters of reference sent to: **Carleton J. Phillips, Chair, Department of Biological Sciences, Texas Tech University, Box 43131, Lubbock, TX 79409-3131.** Visit our website: <http://www.biol.ttu.edu>. Women and members of underrepresented groups are encouraged to apply.

### ASSISTANT PROFESSOR

#### Molecular Behavior Genetics/Neurogenetics

The Institute for Behavioral Genetics and the Department of Molecular, Cellular, and Developmental Biology at the University of Colorado, Boulder, invite applications for a Molecular Behavior Geneticist/Neurogeneticist for a nine-month, tenure-track appointment beginning August 2002 at the Assistant Professor level. Candidates who employ state-of-the-art molecular and neurobiological methods to study human, vertebrate, or invertebrate models of complex behaviors will be given special consideration. Possible area of research that will interface with existing research programs in behavior genetics and neurogenetics include but are not limited to drug abuse, learning and memory processes, and aging. Candidates will participate in the research and teaching missions of both the Institute and Department.

Applicants should submit curriculum vitae, a statement of research and teaching interests, sample research papers, and at least three letters of recommendation to: **Behavior Genetics Search Committee, Institute for Behavioral Genetics, University of Colorado, 447 UCB, Boulder, CO 80309-0447.** Inquiries should be addressed to: **John K. Hewitt, Chair, Behavior Genetics Search Committee (MCDB/IBG); Telephone: 303-492-0742; e-mail: john.hewitt@colorado.edu.** Application review will begin on November 1, 2001. The position will remain open until filled. *The University of Colorado at Boulder is committed to diversity and Equality in Education and Employment.*

### NEUROSCIENTIST POSITIONS ST. OLAF COLLEGE

St. Olaf College invites applications for two tenure-track Neuroscientist positions, one in the Biology Department and one in the Psychology Department. Both positions begin September 2002. Applicants must have a strong interest in quality undergraduate teaching, be committed to liberal arts education, and demonstrate the potential to develop an active undergraduate research program. See website: <http://www.stolaf.edu/offices/dean-of-college/neuroscientist.html> for more information. Review of completed applications will begin October 15, 2001. A liberal arts college of the Lutheran Church (ELCA), St. Olaf College is an Affirmative Action/Equal Opportunity Employer and actively seeks diversity in its students, faculty, and staff.

## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITIONS IN MICROBIAL PATHOGENESIS

The Center for Microbial Pathogenesis at the University of Connecticut Health Center is seeking individuals with an outstanding background in microbial pathogenesis for positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. We are seeking individuals with M.D., M.D./Ph.D., or Ph.D. degrees who are interested in adopting innovative, interdisciplinary approaches to problems within their respective fields. Faculty will be expected to establish independent research programs that will attract extramural funding and to actively contribute to a rich scientific environment. A willingness to interact with Clinical Investigators is also highly desirable. Although emphasis of the search will be on individuals with research interests in fungal, vector-borne, or sexually transmitted diseases, applications from individuals working in other areas of microbial pathogenesis will be carefully considered. Center faculty will enjoy superb resources including generous start-up funds and space in a newly constructed, state-of-the-art research building. There also are state-of-the-art core facilities for nucleic acid sequencing, DNA microarray, flow cytometry, confocal fluorescence and electron microscopy, mass spectrometry, and mouse transgenics. Candidates may apply by submitting three copies of complete curriculum vitae, three letters of reference, and a one-to-two-page statement of research interest/goals to: **Dr. Justin Radolf, Director, Center for Microbial Pathogenesis, c/o Ms. Kimberly Young, Center for Microbial Pathogenesis, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3710.** For more information, access the website: <http://cmp.uchc.edu> or Ms. Young; e-mail: [Kyoung@up.uchc.edu](mailto:Kyoung@up.uchc.edu). An Affirmative Action/Equal Opportunity Employer. Minority/Female/Person With Disabilities/Veteran.

**BIOCHEMIST.** McNeese State University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level for spring 2002. Candidates must have a Ph.D. in biochemistry. Duties include teaching introductory and advanced biochemistry lecture and laboratory courses and initiation of a vigorous research program with B.S./M.S. students. Submit curriculum vitae, graduate transcript(s), three letters of recommendation, research plans (with required instrumentation), and teaching philosophy to: **Search Committee, Chemistry Department, McNeese State University, Lakes Charles, LA 70609-0455.** Screening will begin October 15, 2001, and will continue until the position is filled. For inquiries, contact: **Dr. Ron Darbeau; Telephone: 337-475-5777; e-mail: [rdarbeau@mail.mcneese.edu](mailto:rdarbeau@mail.mcneese.edu).** *McNeese State University is an Affirmative Action/Americans With Disabilities Act/Equal Opportunity Employer. Persons needing reasonable accommodations provided by the Americans With Disabilities Act should contact: the McNeese Division of Special Services and Equity; Telephone: 337-475-5428.* Under Louisiana law, the applications and all supporting materials will become public record.

### ASSISTANT/ASSOCIATE PROFESSORSHIP University of Colorado Health Sciences Center

The Barbara Davis Center for Childhood Diabetes cares for Type 1 diabetes patients and conducts basic research in molecular cell biology, developmental biology, epidemiology, molecular genetics of autoimmunity, and transplant immunobiology. It is an NIH Center of Excellence in autoimmunity and diabetes and endocrine research center.

Applicants should have a Ph.D. or M.D. qualifications, a strong record of research achievement, and a commitment to research into the pathogenesis and treatment of Type 1 diabetes. The appointee will perform full-time research and participate in graduate teaching.

Apply by October 15, 2001, to: **John Hutton, 4200 East Ninth Avenue, Box B-140, Denver, CO 80262 U.S.A.** See website: <http://www.uchsc.edu/misc/diabetes/bdc.html>. UCHSC is committed to Equal Opportunity and Affirmative Action.

## POSITIONS OPEN

### TENURE-TRACK POSITION VASCULAR IMMUNOLOGY

The Cardiovascular Research Center at the University of Virginia has a tradition of excellence in cardiovascular research. Our prior interdepartmental research foci have included vascular mechanics, contractile protein function, and signaling in vascular smooth muscle. We are in the process of assembling a group of Investigators who will extend these areas of excellence to include an expanded program that integrates the themes of cell signaling, vascular inflammation, atherosclerosis, and vascular immunology. A special area of emphasis will be on the ways in which interactions between lymphocytes and other leukocytes with endothelial cells and subendothelial tissues affect the structure and function of the healthy and diseased vasculature. We wish to announce the availability of a tenure-track position for **INVESTIGATORS** interested in these areas. We seek individuals who can develop an outstanding research program both on an individual basis and as part of an interdisciplinary team. Qualifications include a Ph.D. and/or M.D. Applicants should have several years of experience and a productive research program in vascular immunology. Appointment may be in any of several basic science departments in the Medical School consistent with prior training and interests of the applicant. This position is part of several hires in cardiovascular research. Applicants should send letters of inquiry, résumé, and one-page statement of research goals to: **Dr. Klaus Ley, Co-Director, Cardiovascular Research Center, P.O. Box 801394, Charlottesville, VA 22908.** Position open until filled. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

### NEUROSCIENTIST

#### NEUROLOGICAL SCIENCES INSTITUTE Oregon Health and Science University

The NSI has a new faculty opening for a Neuroscientist at the level of **ASSISTANT, ASSOCIATE, or SENIOR SCIENTIST.** Preference will be given to applicants with good potential for extramural funding in an area of research that complements current NSI research (website: <http://www.ohsu.edu/nsi>).

The NSI is a multidisciplinary research center dedicated to advancing our understanding of the brain and neurological disorders. We are part of a university that is strong in basic and clinical neurosciences. We have new research facilities located in OHSU's West Campus adjacent to the Oregon Regional Primate Research Center and the Vaccine and Gene Therapy Institute.

Applicants should submit curriculum vitae, a statement of research interests, and three letters of recommendation to: **Search Committee, Neurological Sciences Institute, Oregon Health and Science University, 505 N.W. 185th Avenue, Beaverton, OR 97006-3499.** Applications must be received by November 12, 2001.

*OHSU is an Equal Opportunity Employer.*

### FACULTY POSITIONS IN BIOLOGY Westmont College

We invite applications for two tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** openings: (1) developmental biology and (2) ecology/evolution or animal behavior. Teach courses in introductory core and in area of expertise. Involve undergraduate students in a vigorous research program. Ph.D. required; postdoctoral research and teaching experience preferred. Westmont is a Carnegie Level I liberal arts college stressing excellence in undergraduate teaching, scholarship, and commitment to the Christian faith. Candidates are expected to contribute to the character and mission of the College. Information can be obtained from website: <http://www.westmont.edu/departments/biology/position>. Please send curriculum vitae, research and teaching interests, and names of three references to: **Search Chair, Biology Department, Westmont College, Santa Barbara, CA 93108.** Review of applications will commence on 1 November 2001.

*Women and minorities are encouraged to apply.*

LOOKING  
FOR A JOB  
ISN'T  
ROCKET  
SCIENCE.

What you do every day is

**Science @**  
CAREERS  
[www.sciencecareers.org](http://www.sciencecareers.org)

job postings  
resume/CV database  
e-mail alerts  
employer profiles

## WHEAT GENOMICS

The U.S. Department of Agriculture, Agricultural Research Service has two permanent, full-time vacancies in the general area of Wheat Genomics located in the Crop Production and Pest Control Research Unit at Purdue University, West Lafayette, Indiana.

**RESEARCH GENETICIST (PLANTS), GS-12/13.** The successful applicant will function as part of a multifaceted interdisciplinary research team to analyze disease resistance using the tools of molecular genetics, breeding, genomics, proteomics and pathology. Research focus will be understanding the interactions between pests and pathogens at the biochemical level with a long-term goal of reducing losses of small grain cereal crops due to pathogens and pests. Primary efforts as part of the research team will involve understanding the genetic and biochemical basis of localized and systemic disease resistance, characterization of signal-transduction pathways involved in resistance, and/or the role of apoptosis during resistance of wheat in response to attack by pests and pathogens of importance to U. S. Agriculture. Some pest/pathogen problems that could be focused on include head blight (scab) caused by *Fusarium* spp., septoria tritici leaf blotch caused by *Mycosphaerella graminicola*, or leaf and glume blotch caused by *Stagonospora nodorum*; opportunities to collaborate on other projects will be available. The salary range is \$51,927 - \$80,279 per year and the position includes funds for research program support. Applications must be marked ARS-X1W-1429 and be postmarked by November 2, 2001. See below for further application information.

**GENETICIST (PLANTS), GS-11.** The successful applicant will be part of a coordinated wheat genomics project to analyze resistance of cereal crops to pests and pathogens. Will provide bioinformatics research support to the Principal Investigator and other team scientists. Participation as a team member in all phases of the research process is expected. Will have full technical and operational responsibility for bioinformatics aspects of the research, including database development and analysis as needed for micro/macro arrays, SAGE, EST sequencing or other projects. Must be familiar with molecular methods of genomics research and have proficiency in database development, data acquisition and analysis. Salary range: \$43,326 - \$56,322 per year. Applications must be marked ARS-X1W-1474 and be postmarked by October 5, 2001.

To apply for either position: Please refer to the vacancy announcements at: <http://www.afm.ars.usda.gov/divisions/hrd/hrdhomepage/empopp.htm> for further details on the positions and the application process or call Margy Trout, (301) 504-1580. For information on the research program, contact Dr. Larry Dunkle, (765) 494-6076, [dunkle@btwn.purdue.edu](mailto:dunkle@btwn.purdue.edu). **Applicants must be U.S. citizens.** The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital and family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice or TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice or TDD).

*USDA is an Equal Opportunity Provider and Employer.*



University of Zurich

## Professorship in Chemistry Synthetic Bio-Organic Chemistry

Following a refocusing of research efforts in the area of Life Sciences, and in particular the border between Chemistry and Biology, the Chemistry Department now plans to appoint a new Professor in the Institute of Organic Chemistry. The new Professor should have a distinguished track record of research in preparative organic chemistry, with a strong focus on problems in chemical biology, chemical genetics, or medicinal chemistry; should complement existing strengths and fill gaps in current research in Zurich; and establish strong links with other Institutes and Departments both within the Zurich area and outside.

The new Professor will be expected to contribute to the teaching of organic chemistry in the University at all levels and to teach in German if required at the latest after three years.

The Chemistry Department is situated on the Irchel campus, where most of the biological and physical science Institutes of the University are also located. Nearby are the science Departments of the ETH Zurich, and the Paul-Scherrer-Institute which houses the newly established synchrotron Swiss-Light Source for structural studies of biomolecules. These facilities provide a stimulating and attractive environment for interdisciplinary research. In addition, strong ties in teaching and research are being established between the chemistry departments of the University and ETH Zurich.

The new Professor should be appointed in the autumn of 2002, or as soon as possible thereafter. Applications including a curriculum vitae, list of publications, outline of current and future research, should be received not later than 15<sup>th</sup> November 2001 by the Dean of the Science Faculty at the following address: Professor Kurt Bräse, Dekanat der Mathematisch-naturwissenschaftlichen Fakultät, Universität Zürich, Winterthurerstrasse 190, 8057 Zürich, Switzerland. The CV and list of publications should also be submitted in a single file to [jobsnmf@zuv.unizh.ch](mailto:jobsnmf@zuv.unizh.ch).

For additional information see also <http://www.unizh.ch> or please contact Prof. John Robinson, [robinson@oci.unizh.ch](mailto:robinson@oci.unizh.ch), Organisch-chemisches Institut, Winterthurerstrasse 190, CH-8057 Zürich.

## POSITIONS OPEN

### LABORATORY DIRECTOR Molecular Cardiology Laboratory

A position is available in the Guthrie Healthcare System for a Scientist (**ASSISTANT/ASSOCIATE PROFESSOR** level) to establish a molecular cardiology laboratory. The laboratory will be an integral part of the evolving clinical/basic research focus of the premiere Guthrie Cardiovascular Center. We are interested in a person using molecular techniques to characterize changes in cardiac function in animal models of cardiac disease leading to the development of targets for gene therapy. The laboratory, a section of the Cardiology Department, will be located in the Guthrie Research Institute (**website: <http://www.Guthrie.org/Research>**). The Institute offers a collegial and productive research environment in the Endless Mountains of northern Pennsylvania (30 miles south of Cornell University). The Institute provides a highly competitive salary, institutional research funding, excellent facilities, and strong commitment to your success. Applicants should send a statement of research interests, curriculum vitae, and names of three references to: **Dr. Dwight Stapleton, Chair, Cardiology, Guthrie Research Institute, One Guthrie Square, Sayre, PA 18840.**

### SCIENTIST/SENIOR SCIENTIST JF-SS-0009

Genset, the next-generation genomics company engaged in the systematic and comprehensive analysis of the human genome and global leader in DNA synthesis, is looking for a candidate with a Ph.D. with at least three years of research experience in the areas of metabolism or pharmacology. The position will lead a team conducting studies on secreted proteins in rodent models; a strong background in the use of obesity/diabetes in *in vivo* models is preferred. Knowledge in calorimetry is a plus. Ideally the candidate will have industry experience and team management skills. Contact: **The Genset Corporation, Sheila Reed, Human Resources Manager, 10665 Sorrento Valley Road, San Diego, CA 92121. E-mail: [sheilareed@genxy.com](mailto:sheilareed@genxy.com)**. Genset is a genomics company located in San Diego, California, focused on the science of medicine through the research and development of a pipeline of drug candidates for the treatment of metabolic and central nervous system disorders.

**POSTDOCTORAL POSITION** available to characterize genes involved in pancreatic islet function and development using targeted oncogenesis and cre/lox P strategies in mice (please see *JBC* 274:305, 1999; *JBC* 274:1000, 1999; *PNAS* 95:8654, 1998). Candidates must have experience in molecular biology and be familiar with gene targeting strategies. Experience with immunocytochemistry is also useful. Good communication skills are essential. Send curriculum vitae and names of three references to: **Mark A. Magnuson, M.D., Professor of Molecular Physiology and Biophysics, Vanderbilt University, Nashville, TN 37232. E-mail: [mark.magnuson@mcm.vanderbilt.edu](mailto:mark.magnuson@mcm.vanderbilt.edu); FAX: 615-322-7236.** *Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.*

### RESEARCH SPECIALIST

HHMI is seeking a Research Specialist to study transcription regulation by cellular signaling. We have developed novel approaches for the analysis of transcription factor interactions and nucleoprotein complex architecture (see **website: <http://www.umich.edu/~hhmi>**). We offer an interactive work environment in a multidisciplinary research team. Please send your application with curriculum vitae and the names of three references to: **Dr. Tom Kerppola, HHMI, University of Michigan School of Medicine, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. E-mail: [kerppola@umich.edu](mailto:kerppola@umich.edu). Visit our website: <http://www.hhmi.org>. HHMI is an Equal Opportunity Employer.**

## POSITIONS OPEN

The Department of Botany, University of Wyoming, seeks to fill two full-time, nine-month, tenure-track **FACULTY POSITIONS** starting 27 August 2002. Minimum requirements for both positions include a Ph.D. at the time of appointment, an ability to develop and maintain a strong, extramurally funded research program, and a commitment to high-quality teaching at both the undergraduate and graduate levels. Preferred candidates will have at least one year of postdoctoral experience with demonstrated productivity and evidence of potential for independent research.

In addition to the position-specific duties listed below, each successful candidate will develop a graduate course in his/her specialty, teach in the general biology program, advise students, and participate in the usual service activities. Where appropriate, out-reach education may be used to meet instructional obligations.

### ASSISTANT PROFESSOR (REOPENED) Plant Ecophysiology

Specific duties will include development of a productive research program in plant ecophysiology; Candidate will teach an upper-division course in plant ecophysiology. Candidates with multiple years of postdoctoral/faculty experience and an established record of research excellence may qualify for appointment at the rank of Associate Professor.

### ASSISTANT PROFESSOR Terrestrial Ecosystems Plant Ecologist

Specific duties will include development of a productive research program in terrestrial ecosystems plant ecology; candidate will teach an upper-division course in vegetation ecology.

To apply, submit a letter of application that indicates the position of interest, curriculum vitae, selected reprints, statements of research and teaching interests, and arrange to have at least three letters of reference sent to: **Mr. Terry Shearin, Search Coordinator, Department of Botany, University of Wyoming, Laramie, WY 82071-3165.** Review of applications will begin October 5, 2001. *The University of Wyoming is an Equal Opportunity/Affirmative Action Employer.*

### RESEARCH GRANTS DIRECTOR

Rockville, Maryland-based \$30 million nonprofit seeks a skilled **ADMINISTRATOR** and **SPOKESPERSON** with a background in biomedical sciences to lead its research grants department. Responsibilities include the administration of grants programs funding research in age-related and degenerative diseases, interaction with scientific review committees, and attendance at scientific meetings. The candidate will identify and implement new program objectives and provide the organization with overall scientific guidance. Must have the ability to convey complex biomedical information to the lay public both verbally and in writing. Should be articulate and comfortable speaking with members of the print, radio, and TV media. Excellent writing skills, management experience, and ability to work well with others are essential. Travel required. Forward salary and curriculum vitae/résumé to **R. Walters, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850.**

### POSTDOCTORAL (RESEARCH FELLOW) POSITION AVAILABLE IMMEDIATELY Vanderbilt University Medical Center Department of Pathology

Reactive oxygen species in heart microvascular endothelial cells to ischemia-reperfusion injury. NIH-funded project. Ph.D. required. Experience in cell culture, molecular biology techniques, and measurement of reactive oxygen species essential. Prospective candidates should send curriculum vitae and the names of three references to: **Dr. B. Meyrick, Department of Pathology, Vanderbilt University Medical Center, MCN T-1217, Nashville, TN 37232. E-mail: [barbara.meyrick@mcm.vanderbilt.edu](mailto:barbara.meyrick@mcm.vanderbilt.edu). Visit our website: <http://www.vanderbilt.edu>. *Vanderbilt is an Equal Opportunity/Affirmative Action Employer.***

## POSITIONS OPEN

### BIOMOLECULAR NMR

The Wadsworth Center invites applications for a **STAFF SCIENTIST** position to establish and maintain a vigorous, extramurally funded research program in macromolecular structure and function. The successful candidate will join an active group of structural biologists in the fields of NMR, X-ray crystallography, and cryoelectron microscopy. He or she will receive a competitive salary and start-up package and will be eligible for concurrent faculty appointment at appropriate rank in the Department of Biomedical Sciences, State University of New York at Albany. The Wadsworth NMR facility is equipped with Bruker Avance 500 and 600 MHz spectrometers with a cryoprobe for the higher-field instrument scheduled to arrive in the summer of 2002. The Wadsworth Center (**website: <http://www.wadsworth.org>**) is a participating institution in the New York Structural Biology Center in New York City (**website: <http://www.nysbc.org>**) which opens this fall to house what will become the largest cluster of high-field research NMR magnets in the country. Interested Scientists should submit curriculum vitae; summary of past and future research; and three letters of reference by November 1, 2001, to: **Dr. David LeMaster, NMR Search Committee, Wadsworth Center, Empire State Plaza, Box 509, Albany, NY 12201-0509.** *The Wadsworth Center is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### MRI SCIENTIST/MANAGER

The Pittsburgh NMR Center for Biomedical Research is searching for an MRI Scientist to manage its facilities. The Center, funded by the NIH as a biomedical technology resource center, is a multidisciplinary research resource for the biomedical community at Carnegie Mellon University and the University of Pittsburgh. Major projects in the Center include assessment of organs after transplantation using functional MR techniques, cell tracking by MRI, and microimaging of mouse models of neurological diseases. Resources include a number of Bruker Avance MR instruments, a 4.7T/40 cm, a 7T/21 cm, a 11.9T/8.9 cm (vertical bore), and a 20 MHz minispec relaxometer as well as a home-built 2.35 T/31 cm Tecmag instrument. Qualifications include a Ph.D. degree and experience performing MRI and/or MRS, preferably using animals, and experience using UNIX. Strengths in pulse programming, rf coil construction, and data processing are highly desirable. The candidate is also encouraged to conduct his/her own independent research. Interested candidates should send curriculum vitae and names of three references to: **Chien Ho, Pittsburgh NMR Center for Biomedical Research, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. FAX: 412-268-7083; e-mail: [chienho@andrew.cmu.edu](mailto:chienho@andrew.cmu.edu).** Review of applications will begin on October 15, 2001, and the search will continue until a suitable candidate is recruited. *Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.*

### RESEARCH ASSOCIATE/ POSTDOCTORAL POSITIONS

The University of Virginia Health System, Department of Pharmacology, is seeking applications for Research Associate/Postdoctoral positions to investigate mechanisms of ion channel modulation. The laboratory uses electrophysiological and molecular approaches in cell culture and in native preparations to understand mechanisms involved in the receptor and anesthetic control of potassium channels (see **website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/bayliss.html>**). Experience in these areas is desirable but not essential. Both foreign and domestic applicants at the Ph.D. level will be considered. Salary will depend on qualifications. To apply, send résumé to: **Dr. Douglas A. Bayliss, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: [dab3y@virginia.edu](mailto:dab3y@virginia.edu).** Application deadline: open until filled. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

AWARDS & PRIZES

GENOMICS

WEST

Submit Search

*Call my agent*

**Science @**  
CAREERS

Meetings and Announcements  
@ [www.sciencemeetings.org](http://www.sciencemeetings.org)



# weWill

...Experience the adventure of a lifetime together...

Raytheon Polar Services is the principle research support contractor to the National Science Foundation (NSF) Office of Polar Programs, which funds research projects in Antarctica. These two exciting and essential full-time positions located in our Englewood, CO office will require periodic 1-month deployment to Antarctica each year.

**Director of Science Support:** This high-profile position involves professional interaction with NSF, military and agency officials in addition to division supervision. A BS or MS in science discipline, 10+ years of management experience with emphasis in science support, experience managing multidiscipline organizations, and ability to work at remote sites in cold regions required.

**Manager of Lab Operations:** B.S or MS in Physical or Natural Science or related experience, 10+ years of experience in lab management and supervisory experience and demonstrated skills in project management required.

All applicants must pass strict physical and dental examinations once employment is offered and provide proof of U.S. citizenship or permanent residency. We offer a competitive salary/benefits package. Go to: [www.polar.org](http://www.polar.org) to request an application. Interested candidates should send application and resume by October 26, 2001 to:

**Raytheon Polar Services**

Please refer to the job title when applying for any opening at RPS

61 Inverness Drive East Suite 300

Englewood, CO 80112

Fax: (303) 662-8770

E-mail: [resume@polar.org](mailto:resume@polar.org)

# Raytheon

*We are proud to be an equal opportunity employer.*

## INNOVATE!

Ambion, Inc., is looking for talented individuals with strong skills in RNA-related technologies. Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Ambion offers a stimulating scientific environment where scientists have the independence to exercise their creativity.

**CURRENT OPENINGS:**

**In situ Hybridization Job #312:** Requires experience in in-situ hybridization or histology.

**RNA Methodology-Job #313:** Requires experience in RNA technologies.

**RNA Isolation Job #314:** Requires an interest in working at the interface of molecular biology and chemistry to develop new technologies for RNA isolation.

**Molecular Diagnostics Job #315:** Requires experience in developing new assays or nucleic acid isolation.

**Pathology-Histology Job #316:** Requires a strong background in the area of histology/pathology or other areas of molecular diagnostics.

Ambion is located in Austin Texas. We offer competitive salaries, benefits, bonus plan and an employee stock option plan. For more information about these and other opportunities or to submit your resume visit:

[www.ambion.com/jobs](http://www.ambion.com/jobs)

EOE/AA

Ambion, Inc.  
2130 Woodward St.  
Austin, TX 78744-1832  
fax: (512)651-0201  
[www.ambion.com/jobs](http://www.ambion.com/jobs)

**Ambion**  
THE RNA COMPANY™

## ANNOUNCEMENTS

### THE NATIONAL ACADEMIES

*Advisers to the Nation on Science, Engineering, and Medicine*

National Academy of Sciences  
National Academy of Engineering  
Institute of Medicine  
National Research Council

CHRISTINE MIRZAYAN INTERSHIP PROGRAM

**The Christine Mirzayan Internship Program of the National Academies** is designed to engage graduate and postdoctoral science, engineering, medical, veterinary, business, and law students in science and technology policy and to familiarize them with the interactions between science, technology, and government. As a result, students develop essential skills different from those attained in academia and make the transition from being a graduate student to a professional.

**There are two sessions each year:**

**January** (12 weeks) and **June** (10 weeks).

To apply, candidates should submit the application and one letter of reference, both available on-line at [nationalacademies.org/internship](http://nationalacademies.org/internship).

**The deadline for receipt of materials is**

**November 1** for the January program and

**March 1** for the June program.

Details are on our Website:

[www.nationalacademies.org/internship](http://www.nationalacademies.org/internship)

Additional questions should be directed to: [internship@nas.edu](mailto:internship@nas.edu)



## Intern with Einstein

## POSITIONS OPEN

### POSTDOCTORAL RESEARCHER

A Postdoctoral Research position is available to help characterize virulence mechanisms in *Mycobacterium avium*, a close relative of the tuberculosis bacillus. The successful candidate will utilize molecular genetic, functional genomic, and bioinformatic methods to improve our understanding of how mycobacteria cause disease in humans. The position requires a Ph.D. and working experience with bacterial genetics.

Send résumé, statement of research interests, and three references to:

**Diane Johnson, Human Resources Manager**  
Seattle Biomedical Research Institute  
4 Nickerson Street, Number 200  
Seattle, WA 98109 U.S.A.  
E-mail: [djohnson@sbri.org](mailto:djohnson@sbri.org)

**POSTDOCTORAL POSITION** at the University of North Carolina at Chapel Hill. The position is available immediately to investigate the distribution of drug transporter proteins on subcellular compartments as well as their role in drug transport and resistance in mammalian cells. Candidates should have experience in standard cell biological techniques including fluorescence microscopy, cell culture, and Western blotting. Send or e-mail a brief description of research experience and interests, curriculum vitae, and names of three references with telephone numbers to: **Jeffrey P. Krise, Ph.D., GlaxoSmithKline, MA1A3431 Elion-Hitchings Building, 5 Moore Drive, Research Triangle Park, NC 27709.** E-mail: [jpk18508@gsk.com](mailto:jpk18508@gsk.com).

Harvard Medical School **POSTDOCTORAL POSITIONS** are available to study presenilins and notch1 in cortical development, synaptic plasticity, and pathogenesis of Alzheimer's disease using multidisciplinary methods including cell-type specific conditional gene targeting and transgenic approaches (Cell 89:629; Development 127:2593; Neuron 31: 713). Recent Ph.D.s with strong background in biochemistry and molecular and developmental biology are encouraged to apply. Send curriculum vitae, recent reprints, and three reference letters to: **Dr. Jie Shen, 764 Harvard Institutes of Medicine, 4 Blackfan Circle, Boston, MA 02115.** E-mail: [jshen@rics.bwh.harvard.edu](mailto:jshen@rics.bwh.harvard.edu); website: <http://www.shenlab.net>.

**POSTDOCTORAL POSITION** to study pathogenesis of inflammatory diseases including atherosclerosis. Candidates must have an M.D. or Ph.D. and significant molecular biology experience. Send curriculum vitae and names and addresses of three references to: **Dr. Robert Gerszten, Cardiology Division and Center for Immunology and Inflammatory Diseases, Massachusetts General Hospital and Harvard Medical School, 149 13th Street, Charlestown, MA 02129.** E-mail: [gerszten@cvcv.mgh.harvard.edu](mailto:gerszten@cvcv.mgh.harvard.edu).

### POSTDOCTORAL RESEARCH ASSOCIATE

Three-year position on metabolic engineering of rubber biosynthesis in guayule and sunflower. Candidates should have a Ph.D. in molecular biology or related science and experience with plant transformation. Please submit applications to: **Dr. Katrina Cornish, U.S. Department of Agriculture-ARS, WRRR, 800 Buchanan Street, Albany, CA 94710.** USDA is an Equal Opportunity Employer. Only citizens of the U.S. or Defense Treaty nations are eligible for hire.

### POSTDOCTORAL RESEARCHER

A Postdoctoral position is available for a Ph.D. with relevant experience in molecular genetic mechanisms of hearing impairment in human genes associated with congenital anomaly disorders. Send statement of interests, curriculum vitae, and three references to: **Bernice Morrow, Ph.D., Department of Molecular Genetics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** Albert Einstein College of Medicine is an Equal Opportunity/Affirmative Action Employer and Educator.

## POSITIONS OPEN

### POSTDOCTORAL POSITION MOLECULAR EVOLUTION

The Department of Biology at the University of New Mexico seeks an applicant for a Postdoctoral position to study the evolution of large experimentally characterized protein interaction networks and its relation to genome and transcriptome evolution. Collaboration with researchers at the nearby Santa Fe Institute is encouraged. The ideal candidate will be familiar with the mathematical and statistical analysis of whole genomes, large-scale gene expression data, and protein interactions. A Ph.D. in biology or a related field as well as fluency in computer programming languages such as C and Perl is required.

Interested applicants should submit a brief cover letter indicating past research experience, curriculum vitae, and three references. Please submit materials to: **Dr. Andreas Wagner, University of New Mexico, Department of Biology, 167A Castetter Hall, Albuquerque, NM 87131-1091.** E-mail: [wagnera@unm.edu](mailto:wagnera@unm.edu).

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

### POSTDOCTORAL/RESEARCH ASSOCIATE

A Postdoctoral/Research Associate position is available immediately to participate in an NIH-funded project to identify transcription factors that regulate expression of myeloid-specific leukocyte integrin genes and assess their role in myeloid cell differentiation (Mol. Cell. Biol. 16:2940-2950, 1996; J. Biol. Chem. 272:24038-2405, 1997; J. Biol. Chem. 275: 8959-8969, 2000). Additional information regarding this project is available at website: <http://www.guthrie.org/research/scientists/noti.asp>. Candidates with a Ph.D. and experience in molecular and cell biology and/or transgenic mice technology should send their curriculum vitae and the names and addresses of three references to: **Dr. John D. Noti, Laboratory of Molecular Biology, Guthrie Research Institute, Sayre, PA 18840-1692.** E-mail: [jnoti@inet.guthrie.org](mailto:jnoti@inet.guthrie.org).

**POSTDOCTORAL POSITION** immediately available to investigate CD40-mediated differentiation of normal and immunodeficient B cells. A strong background in immunology or a related field and extensive knowledge of molecular biology techniques are highly desired. Qualified candidates should send or FAX résumé and names of three references to:

**Dr. Lori Covey**  
Department of Cell Biology and Neuroscience  
Rutgers University  
604 Allison Road  
Piscataway, NJ 08854  
FAX: 732-445-5870  
E-mail: [covey@biology.rutgers.edu](mailto:covey@biology.rutgers.edu)

### POSTDOCTORAL POSITIONS University of Kansas Medical Center

Postdoctoral positions available to study the Kapoisi's sarcoma-associated human herpesvirus-8 viral glycoproteins and the biology. Experience in virology, glycoproteins, molecular biology, signaling pathways, and protein chemistry is required. Submit curriculum vitae, research interests, and names of three references to: **Dr. Bala Chandran, Professor, Department of Microbiology, 3026 WHW, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7420.** FAX: 913-588-7295; e-mail: [bchandra@kumc.edu](mailto:bchandra@kumc.edu). An Equal Opportunity/Affirmative Action Employer.

### EPIGENETICS, CHROMATIN DYNAMICS, AND GENE EXPRESSION

Two **POSTDOCTORAL POSITIONS** available to study how DNA and histone methylation affects chromatin dynamics and gene expression. For more information, please see our recent publications (Genes & Dev. 15:827; Science 293:853) or visit our website: <http://www.med.unc.edu/~zhangyi/lab.htm>.

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Postdoctoral position is available to investigate the pathogenesis of *Chlamydia trachomatis* genital tract infection. Qualified applicants (Ph.D. or M.D.) with a background in immunology or infectious disease pathogenesis will be given preference. Experience in molecular biological techniques is also desirable. Applicants should submit curriculum vitae and arrange to have three letters of recommendation sent to: **Dr. Richard P. Morrison, Department of Microbiology, Montana State University, P.O. Box 173520, Bozeman, MT 59717-3520.** E-mail: [morrison@montana.edu](mailto:morrison@montana.edu). Position open until filled. Americans With Disabilities Act/Affirmative Action/Equal Opportunity/Veterans.

**POSTDOCTORAL POSITION** available to study neurofibromatosis 2 and related neurotologic diseases. Experience in gene regulation and transgenic mice is preferable. Interested candidates please forward curriculum vitae and three references to: **OSU Medical Center Employment, Attention: Dr. Brad Welling, N164 Doan Hall, Columbus, OH 43210.** The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.

**POSTDOCTORAL POSITION** available in area of tyrosine phosphorylation and integrin signaling. Recent Ph.D. graduate wanted to study the regulation of biochemical and biological events by protein tyrosine kinases/phosphatases following integrin-dependent adhesion. Current studies are exploring the role of FAK family kinases in inflammation and in the development of cancer. Experience in molecular biology, biochemistry, and tissue culture an asset. Send curriculum vitae to: **Dr. Michael Schaller, Department of Cell and Developmental Biology, University of North Carolina at Chapel Hill, CB Number 7090, 108 Taylor Hall, Chapel Hill, NC 27599.** E-mail: [crispy4@med.unc.edu](mailto:crispy4@med.unc.edu). Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL POSITIONS

Two positions funded by the Cardiovascular Center of Excellence are available to study the signal transduction mechanisms related to the effect of nitric oxide and protein tyrosine phosphatases on migration, proliferation, and collagen synthesis by vascular smooth muscle cells. Our projects address basic science questions but also have relevance to clinical problems. Experience in the techniques of molecular biology is essential. Send curriculum vitae and the names of three references to: **Dr. Aviv Hassid, Department of Physiology, University of Tennessee, 894 Union Avenue, Memphis, TN 38163.** E-mail: [hassid@bellsouth.net](mailto:hassid@bellsouth.net). FAX: 901-448-7126.

Two **POSTDOCTORAL POSITIONS** are available immediately to study the regulation of growth and metabolism with emphasis on hormone structure-function relationships and signal transduction processes. A full position description is available at website: <http://www.ndsu.nodak.edu/ndsu/holbrook/nonclass.stm>. Review of applications begins January 1, 2002. Send letter of application, curriculum vitae, and names of three references to: **Dr. Mark Sheridan, Department of Zoology, North Dakota State University, Fargo, ND 58105.** E-mail: [sheila.kath@ndsu.nodak.edu](mailto:sheila.kath@ndsu.nodak.edu). NDSU is an Equal Opportunity Institution.

**POSTDOCTORAL POSITION** available immediately to participate in research projects concerned with disease resistance gene discovery in soybean using structural/functional genomics tools, microarray analyses, and homology-based cloning strategies. Send application to: **Saghai Maroof, Department of Crop and Soil Environmental Sciences, Virginia Tech, Blacksburg, VA 24061.** Telephone: 540-231-9791; FAX: 540-231-3431; e-mail: [smaroof@vt.edu](mailto:smaroof@vt.edu).



# POSITIONS OPEN

# MetaPhore

MetaPhore Pharmaceuticals, a research-driven pharmaceutical company focusing on the development of novel strategies for the treatment of human diseases, is seeking a qualified Scientist in the following area: **SENIOR RESEARCH SCIENTIST**, pharmacology. This person will play a key role in the design/development/execution of animal models to evaluate both the efficacy of lead drug candidates and to address their mechanism-based activity and must have a Ph.D. in pharmacology with postdoctoral and professional industrial pharmacology experience desired. Expertise in any of the areas of inflammation, pain, curriculum vitae pathology, or tumor biology is preferred. It is expected that the successful applicant will be capable of initiating and managing a technical program with minimal day-to-day management input and be able to direct the activities of other junior Scientists.

Interested applicants should send curriculum vitae with the names of three references (to provide letters) to: **Ms. D. Schaller, MetaPhore, 1910 Innerbelt Business Center Drive, St. Louis, MO 63114**. We offer a competitive compensation package and a comprehensive benefits and retirement package. Visit our website: <http://www.metaphore.com>. An Equal Opportunity Employer.

## FACULTY POSITION

**New York University School of Medicine  
Department of Microbiology**

The Department of Microbiology is seeking candidates for tenure-track faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. While qualified applicants in a variety of microbiology disciplines will be considered, applicants in the fields of prokaryotic molecular biology, microbial pathogenesis, viral-host cell interactions, and viral persistence are particularly encouraged to apply. Our department represents a range of research strengths including mechanisms of viral and bacterial pathogenesis, host cell defense mechanisms, microbial and molecular genetics, oncogenesis, signal transduction by growth factors and cytokines, and regulation of gene expression at the transcriptional and translational level. Recruitment is part of a schoolwide plan for development of an infectious diseases program that will complement our existing strengths in these areas. Applications should include curriculum vitae, a statement of research interests, reprints and preprints, and three letters of reference to be forwarded separately. Send applications to: **Department of Microbiology Search Committee, Attention: Dr. Robert J. Schneider, New York University School of Medicine, 550 First Avenue, New York, NY 10016. Telephone: 212-263-5324**. Application deadline: November 30, 2001.

*New York University School of Medicine is an Affirmative Action/Equal Opportunity Employer.*

Proteom Tech, Inc. is a biotech start-up company specializing in high-throughput protein refolding and purification with facilities in Oklahoma and California ([website: http://www.ProteomTech-Inc.com](http://www.ProteomTech-Inc.com)). The following positions are available immediately with competitive salary and generous stock options. **SCIENTIFIC DIRECTOR**: Ph.D. in biochemistry. Experience with protein purification required. *E. coli* expression, inclusion body purification, and refolding preferred. **PRODUCTION MANAGER/DIRECTOR**: B.S. or M.S. in biochemistry/biology/chemistry. Production experience with biotechnological, pharmaceutical, or medical products. Excellent planning, organization, interpersonal, and communication skills in a multiple-product environment. **RESEARCH SCIENTISTS**: Ph.D. in biochemistry, biology. The Scientist will be in charge and perform gene search, protein analysis, and high-throughput gene cloning into *E. coli* expression vectors. Experience with database search and good skills in gene cloning are plus. Interested party may send résumé by e-mail: [galbraith@proteomtech-inc.com](mailto:galbraith@proteomtech-inc.com); FAX: 405-271-7180.

# POSITIONS OPEN

**POSTDOCTORAL FELLOWS  
Pathology and Laboratory Medicine  
Emory University  
Atlanta, Georgia**

Postdoctoral positions are available at Emory University for studies focusing on epithelial cell biology and the pathophysiology of epithelial inflammation. Current projects include (1) identification and characterization of key protein-protein interactions important in the regulation of leukocyte transepithelial migration and/or epithelial tight junction function, (2) elucidation of complex signaling events between leukocytes and epithelial cells that regulate cell migration and mucosal permeability, (3) study of molecular events in epithelial cell migration and wound repair, and (4) pathogen interactions with epithelial cells. A Doctoral degree, excellent oral and written English communication skills, and experience in molecular biology/biochemistry are required. Successful applicants will join our epithelial pathobiology group composed of eight Principal Investigators with common interests; the group occupies 12,500 square feet of new, fully equipped, and interconnected research space. View our website: <http://www.emory.edu/PATHOLOGY/> for additional information.

Interested individuals should send résumé to: **Dr. Charles Parkos or Dr. Asma Nusrat, Emory University Department of Pathology, WMRB Room 2309, Atlanta, GA 30322**. E-mail: [cparkos@emory.edu](mailto:cparkos@emory.edu) or [anusrat@emory.edu](mailto:anusrat@emory.edu). Emory University is an Equal Opportunity/Affirmative Action Employer.

The Department of Psychology at the University of Maryland, College Park, has a tenure-track position at the **ASSISTANT PROFESSOR** level for a Neurobiologist who uses an animal system (preferably invertebrate) to study learning, neural plasticity, or adaptive changes in the nervous system that occur during development. Research strategies using molecular and genetic techniques are welcome as long as the research remains strongly linked to behavioral effects. The successful candidate will have a strong history of research productivity and will be expected to build a robust and active scientific program that attracts external support. Teaching responsibilities will include graduate and undergraduate courses in areas such as behavioral neuroscience, neuroethology, and neuropharmacology. For more information, visit website: <http://www.bsos.umd.edu/cebh/INSjob.html>. Applicants should send curriculum vitae, a statement of research interests, and arrange for three letters of recommendation to be sent to: **Dr. Robert Dooling, Chair, Integrative Neuroscience Search Committee, Department of Psychology, University of Maryland, College Park, MD 20742-4411**. For best consideration, materials should be received by 1 November 2001. *The University of Maryland actively subscribes to both a policy of Affirmative Action and Equal Educational Employment Opportunities. Women and minorities are encouraged to apply.*

## FACULTY POSITION

**Department of Chemistry and Biochemistry**

The Department of Chemistry and Biochemistry, University of Maryland at College Park invites application for a tenure-track position in biochemistry at the **ASSISTANT PROFESSOR** level. Candidates with interests in developing outstanding research programs in molecular studies of significant biological problems are encouraged to apply. The successful candidate may participate in several graduate programs including the Biochemistry and the Molecular and Cellular Biology programs. Please submit curriculum vitae, a three- to four-page description of research plans, and arrange to have three letters of reference sent to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021**. Applications should be received by November 1, 2001, for best consideration. *UMCP encourages applications from women and minorities and is an Equal Opportunity/Affirmative Action Employer.*

# POSITIONS OPEN

**HMR Hôpital Maisonneuve-Rosemont  
Centre affilié à l'Université de Montréal**

The Guy-Bernier Research Center, Maisonneuve-Rosemont Hospital (affiliated with the University of Montreal) invites applications for a position at the level of **ACADEMIC RESEARCHER**. The successful candidate will hold a Ph.D. degree and will have completed at least two periods of postdoctoral training in a pertinent area. He or she will have had outstanding training in the field of mutagenesis and DNA repair using both yeast and mammalian systems. Potential candidates who also possess experience in studying the influence of chromatin structure on DNA damage and repair are particularly encouraged to apply. The candidate will be expected to establish a strong, independently funded research program and to be committed to the training of graduate students. Closing date for this application is November 15, 2001. Applicants should arrange to send curriculum vitae, a detailed statement of research interests, and three letters of recommendation to: **Dr. Elliot Drobetsky, Guy-Bernier Research Center, 5415 boulevard de l'Assomption, Montreal, Quebec H1T 2M4 Canada**. The successful applicant will be bilingual (English and French) or will be expected to attain proficiency in both languages within three years. *In accordance with Canadian immigration requirements, this advertisement is directed mainly to Canadian citizens and permanent residents of Canada. The University of Montreal is committed to Employment Equity.*

## CONDENSED MATTER AND BIOPHYSICS POSITIONS

**Indiana University, Bloomington**

The Physics Department at Indiana University anticipates a significant buildup of its condensed matter and biophysics groups over the next few years. In particular, we aim to build a strong and coherent research effort in biophysics and soft condensed matter physics that will complement and enhance both our ongoing work in the Physics Department and other burgeoning interdisciplinary centers on the Bloomington campus. Our present work includes experimental research on biomaterials, neutron scattering, and electronic transport in spintronic and organic materials. Relevant new centers are focusing research on biomolecular measurements and instrumentation and on bioinformatics. A large new multidisciplinary science building is being designed to enhance state-of-the-art, cross-department collaborations with emphasis on the biosciences. As part of the physics buildup, we anticipate filling both senior (tenured) and junior (tenure-track) faculty positions for fall 2002.

At the senior level, we seek **PHYSICISTS** (theorists or experimentalists) with a clear record of first-rate research productivity involving strong graduate student supervision and with the vision and breadth to lead a vital group encompassing both their own research interests and the efforts mentioned above. The opportunity to oversee additional hires of junior faculty is very likely to materialize over the next few years to help the successful candidates realize their vision.

At the junior level, we welcome applications for a faculty position in experimental or theoretical biophysics/soft condensed matter physics. Successful candidates for the junior position should have demonstrated the potential to lead a first-rate research program with impact on one or more of the areas mentioned above.

In all cases, the candidates should also have the ability to teach physics effectively at both undergraduate and graduate levels. Please send applications including curriculum vitae and a statement of intended research directions to: **Faculty Search Committee, c/o Professor James Musser, Department of Physics, Indiana University, Bloomington, IN 47405** and arrange to have a minimum of three letters of reference sent to the same address. Specify in the application letter whether your interest is in a junior or senior position. Applications received by January 1, 2002, will receive priority. For more information, see website: <http://www.physics.indiana.edu/>. *Indiana University is an Equal Opportunity/Affirmative Action Employer. Women, minority candidates, and couples are urged to apply.*



## POSITIONS OPEN

### CANCER BIOLOGY LABORATORIES Department of Molecular Medicine Cornell University

A **POSTDOCTORAL POSITION** is available for studies on cellular and molecular aspects of cancer metastasis. Studies will involve the molecular characterization of recently discovered cell-cell adhesion principles that mediate vascular arrest of circulating cancer cell cells in select organs ( $\beta 4$ /hCLCA2; polyFN/DPP IV) and the analysis of adhesion-activated signaling cascades and the role of these cascades in cancer cell survival and early metastatic growth, as well as the development of anti-metastatic strategies (e.g., adhesion-domain peptides, aptamers). Applicants should have a strong foundation in molecular and cellular biology and a broad knowledge of current biomedical research. Send curriculum vitae including names of three references to: **Dr. Bendicht U. Pauli, Cancer Biology Laboratories, Department of Molecular Medicine, Cornell University, Cornell University College of Veterinary Medicine, Ithaca, NY 14853. E-mail: bup1@cornell.edu.** *Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator.*

### POSTDOCTORAL TRAINING IN REHABILITATION ENGINEERING Boston University and Harvard Medical School

The Integrated Rehabilitation Engineering Research Training Program is an NIDRR-funded program involving Boston University, Harvard Medical School, Hebrew Rehabilitation Center for Aged, and Spaulding Rehabilitation Hospital. Postdoctoral trainees will be exposed to clinical and research activities in physical medicine and rehabilitation and geriatrics. Trainees will interact with Biomedical Engineers, Clinical Investigators, and Clinical Trainees. A Ph.D. in biomedical engineering or a related field is required. Positions are for two years.

Interested candidates should send a statement of research interests, curriculum vitae, and names of three references to: **Professor J. J. Collins, Department of Biomedical Engineering, Boston University, 44 Cummington Street, Boston, MA 02215. E-mail: abl@bu.edu.**

Two **POSTDOCTORAL POSITIONS** are available immediately to investigate the role of bacterial signaling, gene regulation, and host interaction. The first position involves determining the role of the ZapA metalloprotease in *Proteus mirabilis* virulence (*Mol. Microbiol.* 32:825). The second position is focused on the molecular basis of bacterial interactions with the toxic dinoflagellate *Pfiesteria piscicida* (*Environ. Microbiol.* 3:380). Both positions are federally funded and require previous experience in microbial genetics or cell biology. Interested individuals should send inquiries and applications including curriculum vitae, a brief description of past experience and future research interests, and the names and telephone numbers of three references to: **Robert Belas, Ph.D., Center of Marine Biotechnology, University of Maryland Biotechnology Institute, 701 East Pratt Street, Baltimore, MD 21202. E-mail: belas@umbi.umd.edu.** *The University of Maryland Biotechnology Institute is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.*

**POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE** positions are available to study proliferative signaling and cell cycle regulation. Digital imaging, time lapse, and single cell microinjection together with more traditional techniques have opened up an exciting new area of cell cycle analysis (see [website: http://www.lerner.ccf.org/pi/stacey.html](http://www.lerner.ccf.org/pi/stacey.html)). Investigators with a variety of experience levels and salary requirements are encouraged to apply by sending curriculum vitae to: **Dr. Dennis W. Stacey, NC2-515, The Lerner Research Institute, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: stacey@ccf.org.**

## POSITIONS OPEN

### CANCER GENOMICS

The Oncogenomics Section of the Pediatric Oncology Branch at the Center for Cancer Research, National Cancer Institute, has **POSTDOCTORAL TRAINING POSITIONS** available immediately. Ongoing research efforts involve genomic approaches to the molecular investigation of cancers including rhabdomyosarcoma and neuroblastoma. In particular, the laboratory has extensive experience in the use of mouse and human cDNA microarrays to investigate the oncogenic processes in these cancers. In addition, microarrays are being developed as molecular diagnostic tools for more accurate diagnosis as well as the identification of prognostic markers and the discovery of new therapeutic targets. The candidate should hold either a Ph.D. or M.D. and possess an interest in oncology and have significant experience in molecular and cellular biology. Candidates should have less than five years of postdoctoral experience. Correspondence, names of references, and curriculum vitae should be sent to: **Dr. Javed Khan, Advanced Technology Center, National Cancer Institute, Room 225B, 8717 Grovemont Circle, Gaithersburg, MD 20877. E-mail: khanjav@mail.nih.gov.**

### POSTDOCTORAL POSITIONS X-RAY CRYSTALLOGRAPHY

#### Structural Biology of the Endocytic Apparatus

Applications are invited from candidates experienced in protein expression/purification, crystallization, or X-ray structure determination to work on structure determination of protein complexes involved in vesicle endocytosis. Successful applicants will work in a state-of-the-art X-ray facility in the Center for Biomolecular Structure Analysis, which includes two R-Axis IV imaging plate systems, a Jupiter CCD detector, an RU-200 rotating anode, and an MSC high-brilliance X-ray source. Salaries are competitive and commensurate with qualifications. Send curriculum vitae to: **Dr. Rui Sousa (e-mail: sousa@biochem.uthscsa.edu) or Dr. Eileen M. Lafer, Department of Biochemistry MSC 7760, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900.**

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

### POSTDOCTORAL POSITION AT BOSTON UNIVERSITY Designer Gene Networks

Available immediately to develop synthetic gene regulatory networks (see *Nature* 403:339, 2000). Applicant will work with **Drs. J. J. Collins and Charles Cantor** in the Center for BioDynamics and Center for Advanced Biotechnology at Boston University. Applicants must have a Ph.D. or M.D. and should be experienced in prokaryotic or eukaryotic cell culture and transfection, microscopy, and standard recombinant DNA techniques. Applicants should send a brief statement of research interests, curriculum vitae, and names of three references to: **Dr. J. J. Collins, Department of Biomedical Engineering, Boston University, 44 Cummington Street, Boston, MA 02215. E-mail: abl@bu.edu.**

**POSTDOCTORAL FELLOW** (Ph.D. or M.D./Ph.D.) with expertise in molecular biology or genetics will carry out cutting-edge research in functional genomics to examine the effects of aging and neurodegeneration on well-defined neuronal populations in mouse models of Down syndrome and Alzheimer's disease. Together with a talented team of Research Fellows, the successful candidate will learn and use oligonucleotide microarrays, real time RT-PCR, *in situ* hybridization, and advanced imaging methods to characterize gene expression. Familiarity with genomic databases is desirable. Send curriculum vitae and names of three references to: **Dr. Greer Murphy, Psychiatry, MSLS P-104 or Dr. William Mobley, Neurology, MSLS P-205, Stanford University School of Medicine, Stanford, CA 94305-5485. E-mail: gmurphy@stanford.edu or ngfv1@stanford.edu.**

## POSITIONS OPEN

University of California San Francisco/Northern California Institute for Research and Education **POSTDOCTORAL POSITIONS** available immediately in two areas: (1) molecular mechanisms of endocytosis and trafficking of the G protein-coupled receptor for parathyroid hormone (PTH) and PTH-related protein and (2) development and use of transgenic models to study the relationship between PTH/PTHrP receptor signaling and *in vivo* responses. Applicants must be facile with standard molecular and cellular techniques; preference will be given to candidates with experience in studies of signal transduction and/or transgenic mouse development. Successful candidates may have the opportunity to develop independent research programs. Please forward curriculum vitae and the names of at least two references to: **Robert Nissenson, Ph.D.; e-mail: chicago@itsa.ucsf.edu.**

A **POSTDOCTORAL POSITION** is available in the laboratory of **Alex Ninfa** to study synthetic genetic systems in *E. coli*. We are designing and optimizing synthetic genetic systems for various regulatory and biocomputing functions. For example, we have constructed a synthetic genetic circuit that functions as a circadian clock in *E. coli*. Salary, benefits, and working conditions for this position are competitive. Applicants should be recent Ph.D. in biochemistry, microbiology, or related field and have expertise in the regulation of gene expression in bacteria, molecular biology, and microbial genetics and physiology. Send curriculum vitae and a list of references to: **Alex Ninfa, Department of Biological Chemistry, University of Michigan Medical School, Ann Arbor, MI 48109-0606 U.S.A.** *The University of Michigan Medical School is an Equal Opportunity Employer and encourages applications from women and underrepresented minorities.*

### POSTDOCTORAL POSITIONS Gene Expression Analyses Using Microarrays University of California San Diego

Genetic networks underlying development are being elucidated by analyzing genomewide expression patterns in wild type and mutants strains of *Dictyostelium* ([website: http://www.biology.ucsd.edu/labs/loomis/loomisweb.html](http://www.biology.ucsd.edu/labs/loomis/loomisweb.html)). Candidates with backgrounds in molecular genetics and an interest in bioinformatics are encouraged to apply. Please send curriculum vitae, names of references, and a brief statement of research interest to:

**Dr. William F. Loomis  
Cell and Developmental Biology  
Division of Biology  
UCSD, La Jolla, CA 92093-0368**

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

### POSTDOCTORAL/RESEARCH ASSOCIATE

To carry out NMR structural, mechanistic, and dynamical studies of signaling peptides and enzymes involved in the regulation of cell growth and survival. Experience with heteronuclear and multidimensional NMR is required. Excellent salary and weather. Send curriculum vitae and names of primary references to: **Dr. Thomas K. Harris, Department of Biochemistry and Molecular Biology (R-629), University of Miami School of Medicine, P.O. Box 016129, Miami, FL 33101-6129. E-mail: tkharris@miami.edu; Telephone: 305-243-3358; FAX: 305-243-3955.**

**POSTDOCTORAL POSITION** available to study the molecular biology of metabolic bone disease. The laboratory is well equipped, well funded, and has a collegial environment. We prefer someone with some experience in molecular biology, cell biology, genetics, or metabolic bone disease. Please send curriculum vitae and date available to: **Michael Econs, M.D., Director, Division of Endocrinology and Metabolism, Indiana University School of Medicine, 541 North Clinical Drive, CL 459, Indianapolis, IN 46202-5111. FAX: 317-278-0658; e-mail: mecons@iupui.edu.** *Indiana University is an Affirmative Action/Equal Opportunity Employer and Contractor. Minority/Female/Disabled are encouraged to apply.*

## POSITIONS OPEN

### POSTDOCTORAL POSITION Molecular Genetics of Growth Control Cancer Research

Postdoctoral positions are available to study the molecular mechanisms that regulate cell proliferation and death during tumorigenesis. We are studying human cancers as well as transgenic and knockout systems in mice in order to understand the molecular mechanisms of tumor progression. We seek highly motivated individuals with a recent Ph.D. in molecular/cell biology, genetics, biochemistry, or a related science and a strong publication record. More information about the Department of Biological Sciences at the University of Pittsburgh is available at: **website:** <http://www.pitt.edu/~biology>. Applicants should send curriculum vitae, short statement of research interests, and the names of three references to:

**Dr. James M. Pipas**  
Professor and Chair  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260 U.S.A.

*The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer. Women and members of underrepresented minority groups are especially encouraged to apply.*

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to study the role of heme uptake and utilization in bacterial pathogenesis. Our laboratory's specific interests are in understanding at a cellular and molecular level the proteins that transport and utilize heme as an iron source. Requires a Ph.D. in biochemistry or a related field. Experience in basic molecular biology, protein purification, and/or basic microbiology is a plus. Applicants should send/e-mail curriculum vitae, a brief letter describing their research experience, and contact information to: **Dr. Angela Wilks, Department of Pharmaceutical Sciences, University of Maryland, 20 North Pine Street, Baltimore, MD 21201-1180. E-mail:** [awilks@rx.umaryland.edu](mailto:awilks@rx.umaryland.edu). For more information, visit **website:** <http://rx.umaryland.edu/research/awilks>.

*University of Maryland, Baltimore, is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL RESEARCHER POSITION

The Department of Cell Biology and Anatomy, Louisiana State University Health Science Center, has a position available as Postdoctoral Researcher. The incumbent in this position will study the molecular mechanisms underlying development of the peripheral nervous system and heart utilizing molecular and genetic approaches. Experience in molecular biology is essential; embryo manipulation and/or ES/transgenic experience is preferred. Qualifications include a Ph.D. in biological sciences or related field. Applicants should send curriculum vitae and three references to: **Peter Cserjesi, Ph.D., Department of Cell Biology and Anatomy, LSUHSC, 1901 Perdido Street, New Orleans, LA 70112. E-mail:** [pcserj@lsuhsc.edu](mailto:pcserj@lsuhsc.edu). *LSUHSC is an Equal Employment Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL ASSOCIATE Massachusetts Institute of Technology

The Department of Chemical Engineering has an opening for a Postdoctoral Associate in mouse hepatic metabolism. This diabetes-related project involves integrating metabolic function with gene expression using bioinformatics. The research group led by **Greg Stephanopoulos** and **Joanne Kelleher** combines novel engineering and physiological approaches.

Expertise sought for two positions: (1) cellular or mouse metabolic function, isotopic studies, and mass spectrometry and (2) molecular biology of mammalian cells, especially transfection and related techniques. Reply by e-mail: [jkk@mit.edu](mailto:jkk@mit.edu) with curriculum vitae and availability date. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available in the laboratory of **Alex Ninfa** to study the structure and function relationships in the two-component system transmitter protein NR11 (NtrB). This protein serves as a paradigm for the two-component regulatory systems of bacteria, the largest class of signal transduction systems in bacteria. Applicants should be recent Ph.D. in biochemistry or biophysics with expertise or interest in protein purification, molecular biology, enzymology, protein crystallization, and structure determination. Send curriculum vitae and a list of references to: **Alex Ninfa, Department of Biological Chemistry, University of Michigan Medical School, Ann Arbor, MI 48109-0606 U.S.A.** *The University of Michigan Medical School is an Equal Opportunity Employer and encourages applications from women and underrepresented minorities.*

Searching for **SCIENTIST/MANAGER** for pharmaceutical start-up company. Responsibilities include coordinating clinical trial contractors, drug manufacturers, and corporate and university sponsors. Ph.D. in pharmaceuticals or pharmacology or an equivalent combination of education (M.S.) and corporate experience is preferred. Send résumé to: **Tim Vinson, P.O. Box 100485, Gainesville, FL 32610. FAX: 352-392-8406; e-mail:** [tvinson@ufl.edu](mailto:tvinson@ufl.edu).

## FELLOWSHIPS

The Whitaker Biomedical Engineering Institute at the Johns Hopkins University invites applications for the **WBMEI Distinguished POSTDOCTORAL FELLOWSHIPS**. The aims of the program are (1) to promote an interdisciplinary approach to the study of complex biomedical systems and (2) to provide the very best of the recently graduated Ph.D.s an opportunity to perform independent research in a supportive environment. The Fellowship will provide each recipient the freedom to conduct highly visible research while drawing upon the material resources and scientific expertise of the established laboratories of the WBMEI faculty sponsor. Two faculty members will sponsor each recipient; at least one will have a primary appointment in WBMEI. We are seeking candidates in the following areas of concentration: biomedical imaging, biomaterials, cardiovascular systems, molecular and cellular systems, sensors and instrumentation, systems and computational neuroscience, tissue engineering, and theoretical and computational biology. Salary of the Fellows will be \$35,000 per year plus additional funds to cover health insurance. The duration of the Fellowship is two years. Interested applicants should submit curriculum vitae, two letters of reference, and a two-page description of their research interests and previous work to: **Dr. Murray Sachs, Director, Whitaker Biomedical Engineering Institute, 720 Rutland Avenue, Baltimore, MD 21205-2196. Deadline for receipt of application is December 1, 2001. For more information, see website:** <http://www.bme.jhu.edu/postdoc>.

*The Johns Hopkins University is an Equal Opportunity/Affirmative Action Institution.*

## GLOBAL OPPORTUNITIES

### TENURE-TRACK FACULTY POSITION DEPARTMENT OF PHYSIOLOGY FACULTY OF HEALTH SCIENCES Ben-Gurion University of the Negev, Israel

The Physiology Department at the Faculty of Health Sciences, Ben-Gurion University, is seeking a **CELLULAR PHYSIOLOGIST** or **NEUROBIOLOGIST** for a tenure-track position. Competitive applicants should have a Ph.D. degree, postdoctoral experience, and a record of innovative research productivity.

Applicants should forward curriculum vitae, a short summary of current research interests and future plans, and arrange for four letters of recommendation, to be sent to: **Professor Naomi Meyerstein, Head, Department of Physiology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel. FAX: 972-8-6477628; e-mail:** [naomi@bgumail.bgu.ac.il](mailto:naomi@bgumail.bgu.ac.il).

## MARKETPLACE

### The World of Science Online

- Science Electronic Marketplace
- Science's Next Wave
- Science NOW
- Science Careers

**Science**

[www.scienceonline.org](http://www.scienceonline.org)

### MONOCLONAL & POLYCLONAL ANTIBODY DEVELOPMENT

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

Polyclonal Antibodies in less than 2 months!  
Hybridoma Development and *in vitro* services.  
Phone: 215-795-2838 • e-mail: [sci@lampire.com](mailto:sci@lampire.com)

Circle No. 32 on Readers' Service Card

### CUSTOM SHOTGUN DNA LIBRARIES

- BAC, PAC, P1, Cosmid or other large insert clones acceptable
  - Random M13 or pUC18 plasmid library provided
  - High quality; >95% insert ratio
  - 1-2 week turnaround time
  - Customer satisfaction guaranteed
- DNA sequencing and mini-prep services available
- seqwright**  
TEL (713) 528-4363  
FAX (713) 528-6232  
[www.seqwright.com](http://www.seqwright.com)  
[seq@blkbbox.com](mailto:seq@blkbbox.com)

Circle No. 41 on Readers' Service Card

### CUSTOM OLIGOS

**55¢ per base\***

50 nm scale of synthesis

- Wide range of purifications, custom modifications, FRET probes
- Large scale synthesis available

**800-788-4362**

on-line: [dna@keydna.com](mailto:dna@keydna.com)

**biosource.com**

Circle No. 34 on Readers' Service Card

### Polyclonal Development

for \$399!

- Includes peptide synthesis and conjugation
- 10 week protocol, 2 rabbits
- Reactivity confirmed by ELISA

**BIOCARTA**

\*Certain conditions apply. Pricing valid in the US only.  
[www.biocarta.com](http://www.biocarta.com)  
[customservice@biocarta.com](mailto:customservice@biocarta.com)

**1-877-641-2355**

Circle No. 33 on Readers' Service Card



**MORE PRODUCTS  
ON PREVIOUS PAGE**

your Single-Source  
Antibody Authority

**STRATEGIC  
BIOSOLUTIONS**

Custom Antibody Services

- Polyclonal • Monoclonal
- In-house Development • Assay Production
- Screening Production • Purification • Conjugation

**800.481.9737**  
www.strategicbiosolutions.com

Circle No. 37 on Readers' Service Card

## Customized Project Support

CBI is your source for complete R&D project support, including all peptide, protein, DNA and molecular biological technologies. For a free consultation or a quote, call 1-800-735-9224 or email info@cbi-biotech.com.



601 Biotech Drive • Richmond, VA 23235  
1-800-735-9224 • www.cbi-biotech.com

Circle No. 50 on Readers' Service Card

**CUSTOM MICROARRAYS**

RELIABLE FAST ACCURATE

**MICROARRAYS, INC.**  
(615) 327-5495  
www.microarrays.com

MICROARRAYS, INC.

Circle No. 36 on Readers' Service Card

DNA (plasmid, PCR, BAC, genome, genotyping)

**SEQUENCING** special **\$15/RUN**

**Overnight, High Quality**

800-214-7722, CustomerService@ElimBiopharm.com

Circle No. 38 on Readers' Service Card

**STARFIRE™ Oligo Labeling System**

Discover a powerful new technology.  
Discover unbeatable results.  
Discover STARFIRE™!

**IDT** www.idtdna.com  
1-800-328-2661

Circle No. 47 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

Web site: http://www.4adi.com

Circle No. 43 on Readers' Service Card

**QUALITY DNA SYNTHESIS**  
MALDI-TOF Mass Spectrometry Quality Control

Fluorescent Dyes & Other Modifications  
Gene Construction & Sequencing Services  
Custom RNA Oligos & Antisense DNA Oligos  
Custom Primers for PCR & Sequencing  
Long Oligos (up to 150-mers)  
Competitive Pricing

**MIDLAND**

The Midland Certified Reagent Company Inc.  
1-800-247-8766 • FAX: 1-800-359-5789  
www.mcrc.com • email: mcrc@oligos.com

Circle No. 46 on Readers' Service Card

**3 O.D. Select Oligos**

**NEW LOW PRICE**

**Just \$0.45/base\***

Order through our Web site and we'll ship your 3 O.D. Select oligos in just 24-48 hours. Every oligo is QC'd by PAGE analysis, and each batch is performance-tested by mass spec.

\*Desalted only. Oligos must be 10 to 35 bases in length. No modifications or additional purification. Web orders only. Offer valid in U.S. only.

**SIGMA  
GENOSYS**

North America: 1-877-710-1504 • email: gorderentry@sigma.com

Circle No. 48 on Readers' Service Card

**Widely  
Recognized  
Original &  
Guaranteed**

**KlenTaq I** **8¢/u**

Truncated  
Taq DNA  
Polymerase  
Withstand 99°C

US Pat # 5,436,149

Call: **Ab Peptides** 1-800-383-3362

Fax: 314-968-8988 www.abpeps.com

Circle No. 42 on Readers' Service Card

**MERLIN® Custom Services**

**Plasmid Purification**

**Q-BIOgene**

Starting at \$59/1 mg\*  
Endotoxin Removal, Cloning,  
Research or cGMP Grade  
\*minimum of 5 mgs

1-800-4-PLASMID • www.qbiogene.com

Circle No. 44 on Readers' Service Card

BIO●SYNTHESIS, INC.

## PEPTIDES, OLIGOS ANTIBODIES

800-227-0627 www.biosyn.com

Circle No. 45 on Readers' Service Card

**Quality Peptides & Antisera**

*Friendly, Personal Service*  
www.genosys.com

**Custom Peptide Synthesis**

- sequence analysis
- IG, >70%, >80%, >95% purity
- scales from 2 mg-1 g
- synthesis up to 120 residues
- variety of modifications available
- mass spec & HPLC on every peptide
- satisfaction guaranteed

**Polyclonal Antisera Service**

- antigen design assistance
- synthesis, conjugation and sera collection
- flexible protocol

**SIGMA  
GENOSYS**

North America: 1-877-710-1502  
ginformation@sigma.com

Europe: (+44) (0) 1223 839000  
info@sigma-genosys.co.uk

Circle No. 49 on Readers' Service Card

DNA	PEPTIDES
Free Set-up and Desalting	Call and Compare
<b>Gene Synthesis, Site Mutagenesis, Protein Expression and more</b>	
<b>COMPARE AND SAVE</b>	
<b>DNA Sequencing:</b> as low as \$15 per run	
<b>Custom Anti-peptide Antibody</b> (including peptide synthesis) <b>\$850</b>	
<b>GENEMED SYNTHESIS</b> 800.344.5347 • Fax: (760) 920-4100 Web Site: www.genemedsyn.com	

Circle No. 39 on Readers' Service Card

**Antibodies That Work!**

Great Zymed Performance:  
Including The Best Antibody To...

**Nitrotyrosine**

**ZYMED LABORATORIES, INC.** www.zymed.com  
415 South San Francisco, California, U.S.A. 1-650-671-4494

Circle No. 35 on Readers' Service Card

**Custom DNA Synthesis**

Purified and delivered in 48 Hours  
www.resgen.com

**ResGen** 1-800-533-4363  
lexigen Corporation

Circle No. 40 on Readers' Service Card



**Let there**

**be light.**

### Dual-Labeled Probes

Illuminate your results with Operon's advanced dual-labeled probe technology. Take advantage of our wide selection of dual-labeled probes, including Black Hole Quenchers™, FRET probes, and Molecular Beacons.

TAMRA, 6-FAM, Cy<sup>®</sup>3, Cy5, HEX, Dabcyl, Oregon Green<sup>®</sup>, Texas Red<sup>®</sup>, Fluorescein, BODIPY, TET, ROX, and BHQ™.

With a fast turnaround time, competitive pricing, and over 15 years of experience in modified oligo synthesis, Operon delivers probes that rise above the background.

Visit our web site at [www.operon.com](http://www.operon.com) or call Operon today for more information.

The Black Hole Quencher dyes were developed by and are licensed and sold under agreement with Bioscience Technologies, Inc., of Novato, CA. Black Hole Quencher and BHQ are trademarks of Bioscience. Operon's Molecular Beacons are licensed under patents owned by The Public Health Research Institute of the City of New York, Inc. and come with licensed rights for use only in the purchaser's research and development activities. Cy is a registered trademark of Amersham Pharmacia Biotech Limited or its subsidiaries. Oregon Green and Texas Red are registered trademarks of Molecular Probes, Inc.  
©2001 Operon; all rights reserved.

the *art* of Genomics™

**OPERON**  
A QIAGEN COMPANY

NORTH AMERICA 800-688-2248 / 510-865-8644 [dna@operon.com](mailto:dna@operon.com)  
EUROPE 00800-OP-ORDERS (00800-67 67 33 77) [oligo@operon.com](mailto:oligo@operon.com)  
[www.operon.com](http://www.operon.com)

Circle No. 63 on Readers' Service Card

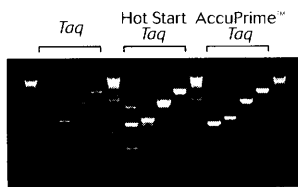


## AccuPrime™ *Taq*. Clean PCR, hot-start accuracy. Cycle after cycle after cycle.

Now you can amplify only the specific DNA targets you want, the first time, without amplifying any non-specific bands. Thanks to the unmatched technology of AccuPrime™ *Taq* DNA Polymerase, you can prevent mispriming throughout each and every cycle of PCR.

**Advanced hot-start.** AccuPrime™ *Taq* combines Platinum® hot-start technology with a proprietary thermostable accessory protein that remains active throughout all PCR cycles and provides you with unprecedented control over mispriming. Unlike conventional DNA

polymerases, with AccuPrime™ *Taq* you get consistent extension results of targeted and specific PCR product.



Comparison of PCR specificity with various *Taq* Polymerases.

**Save valuable time.** AccuPrime™ *Taq* broadens your primer annealing temperatures with its robust performance between 55°C–65°C, overcoming your problems caused by sub-optimal primer sets. Stop wasting valuable time redesigning your primer sets. Turn to

AccuPrime™ *Taq*. For information, call or visit our website today.

 **Invitrogen**  
life technologies

Circle No. 19 on Readers' Service Card

#### United States Headquarters:

Invitrogen Corporation  
1600 Faraday Avenue  
Carlsbad, California 92008  
Tel: 1 760 603 7200  
Tel (Toll Free): 1 800 955 6288  
Fax: 1 760 603 7229  
Email: tech\_service@invitrogen.com

#### European Headquarters:

Invitrogen Ltd  
3 Fountain Drive  
Inchinnan Business Park  
Paisley PA4 9RF, UK  
Tel (Free Phone Orders): 0800 269 210  
Tel (General Enquiries): 0800 5345 5345  
Fax: +44 (0) 141 814 6287  
Email: eurotech@invitrogen.com

#### International Offices:

Argentina 5411 4556 0844  
Australia 1 800 331 627  
Austria 0800 20 1087  
Belgium 0800 14894  
Brazil 0800 11 0575  
Canada 800 263 6236  
China 10 6849 2578  
Denmark 80 30 17 40

France 0800 23 20 79  
Germany 0800 083 0902  
Hong Kong 2407 8450  
India 11 577 3282  
Italy 02 98 22 201  
Japan 03 3663 7974  
The Netherlands 0800 099 3310  
New Zealand 0800 600 200  
Norway 00800 5456 5456

Spain & Portugal 900 181 461  
Sweden 020 26 34 52  
Switzerland 0800 848 800  
Taiwan 2 2651 6156  
UK 0800 838 380  
Other countries see our website

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