

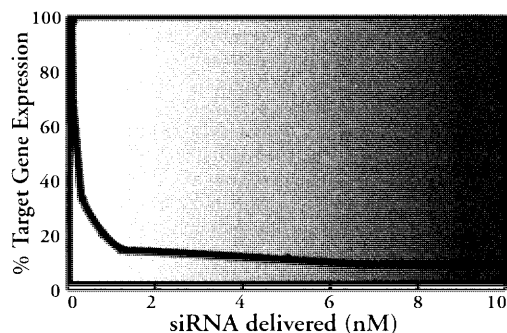
# Knock Out Target Gene Expression



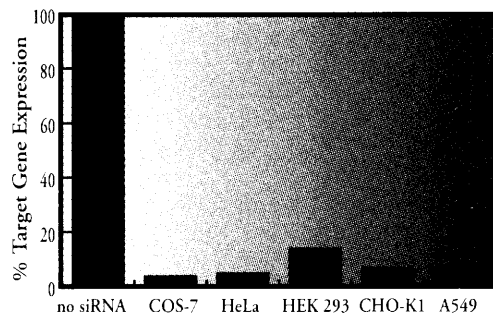
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# NEW PRODUCTS

## Carnoy 2.0 P. Schols and E. Smets

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directly from images rather than from the material itself. Old-fashioned methods of manually measuring distances with a ruler or determining areas with the weight of a cut-out photocopy of the objects are tedious and often imprecise. Few inexpensive software programs are available to make these tasks easier. Carnoy 2.0 is a new shareware program designed entirely for the purpose of acquiring such quantitative data with relative ease.

Carnoy can measure the length or segments of an object, its area, its perimeter and its longest horizontal axis. In order to perform these measurements, the user must first calibrate the image. Carnoy offers three easy ways to do this. If an image already has a scale bar, as is often the case for scanning or transmission electron micrographs, calibration requires only one mouse-click on the scale bar to open a dialog box in which the user enters its value. This value is then automatically converted to pixels, the unit used for on-screen measuring. Instead of a scale bar, any object of known length in the image (for example, a ruler) can be used for calibration by dragging a line across the object and entering its value in the dialog box. This method works for micrographs and for images taken with a digital camera or with a flatbed scanner. If no scale bar is present in the image, the user can calibrate the image indirectly by taking a second image containing an object of known length and entering its value, specifying the image magnification. Carnoy will then apply the same value to the image of interest.

A particularly handy feature in Carnoy is the area calculator. To determine the area of an object in the image, the software uses a threshold contrast function to maximize the contrast between lighter and darker objects. The file is color-inverted, leaving the object white and the background black. Should objects in the image overlap, or if the area of only part of an object is to be measured, the user can use the pen tool with which the perimeter of an area can be selected manually. With a click of the mouse, Carnoy measures the area of the selected object and displays its value in a separate box.

Carnoy can perform basic statistics on the collected data or export the data to spreadsheet software for further analysis. Images can be exported in several file formats.

The Annotation function is a useful Carnoy feature for preparing publication-ready images. With this function, a scale bar may be added to the image and comments or data can be inserted directly in the data list. Carnoy's user manual is barely five pages long and promises that users can familiarize themselves with almost all functions of the program within 15 min. Carnoy can be downloaded from the developer's Web site and is compatible with Mac OS X or Windows operating systems. Best of all, Carnoy costs only \$15.

—Andreas Madlung

Department of Botany, University of Washington, Seattle, WA 98195, USA. E-mail: [madlunga@u.washington.edu](mailto:madlunga@u.washington.edu)

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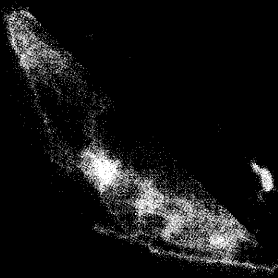
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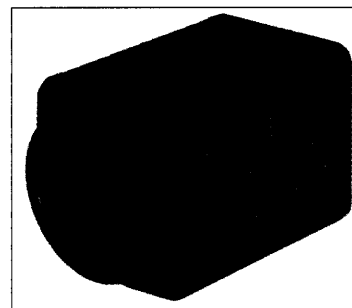
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### LITERATURE

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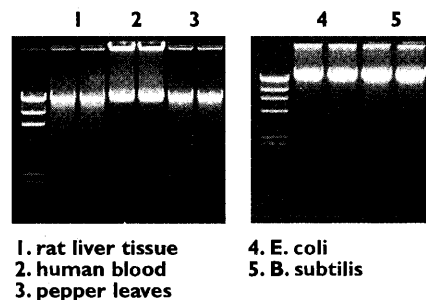
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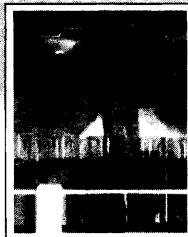
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# Women in Science

## Beyond the Glass Ceiling

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The days in which the only women near a laboratory were secretaries or technicians have long passed. Women scientists today make their mark not only in the lab but also in administrative positions. However, the playing field remains tilted. Even now relatively few women scientists move into top management.

Several institutions have resolved to change that. Organizations created in recent years provide women scientists with the support that will help them to climb the ladder. Business and academic institutions increasingly appreciate the contributions of female scientists and work hard to encourage and promote them. Executives universally agree that institutions should set up mentoring programs that, they say, can benefit men as well as women.

Here we discuss opportunities for women to advance to leadership positions in science. We talk to representatives from one company, two universities, and three institutions set up to support women scientists moving up the organizational ladder.



SUSAN LINDQUIST

**CAMBRIDGE, Massachusetts:** Susan Lindquist came up the hard way. Although dazzled by science in her undergraduate years, she took a long time to realize that she could head her own laboratory, let alone a scientific institution. Lacking female mentors, she had to pick up the survival and professional strategy skills of leadership by trial and error as she progressed up the ladder in academic life science. "It was a big struggle," she says. But it has had a successful conclusion. Last October Lindquist, a specialist in protein folding, took office as director of MIT's Whitehead Institute for Biomedical Research.

Lindquist's rise in academic science has coincided with slow growth in the number of women scientists. In 1988, as a professor at the University of Chicago, she was named an investigator of the Howard Hughes Medical Institute. "Out of 35 scientists who might be attending an HHMI meeting, one or two might have been women," she says. By last year the situation had changed. "There were a lot of women investigators," she says. "It had become some-

thing you could forget about for a time and concentrate completely on your science."

Her invitation to head the Whitehead Institute came at a fortuitous point for her family. The older of her two daughters was about to enter high school. "I felt it was time to make a decision: Stay here for the rest of my life or make a change," she says. "My main concern was whether I could take on an administrative role and do science as well. I really wanted to do a good job — to do right by the Institute and do right by my science. The search committee convinced me that it could be done at Whitehead."

Now established in her leadership role, Lindquist continues to work hard at mentoring young women scientists. "The conversation very commonly comes around to: 'Can you make it and have a family?' to which my answer is a resounding Yes," she says. "There's an attitude that it's possible for women to achieve positions of leadership but you have to know how." Not everyone is convinced. "A lot of younger women don't see any problems," she says. "Others are apprehensive, but only moderately. And there is a group that is still very apprehensive." That spectrum of attitudes indicates that the playing field is leveling out for women scientists. "Is it better?" asks Lindquist. "Yes. Is it perfect? No. Will it continue to improve? I hope so."

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Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including applied mathematics and statistics, bioinformatics, biology, chemical or software engineering, chemistry, environmental or physical science, geophysics, human health sciences, hydrologic and landscape modeling, immunology, microbiology, population genetics, and protozoology. The preferred candidates will have earned a Ph.D. in one of these areas within the last five years or will have it awarded prior to their Federal employment start date.

The NERL post-doctoral positions will be located in a Division in one of the following locations: Research Triangle Park, North Carolina; Cincinnati, Ohio; Las Vegas, Nevada; Athens, Georgia; or Washington, DC metropolitan area, depending on the particular disciplinary focus, and will be filled beginning **June 2002**. These excepted service appointments will last for four years and offer a salary range of **\$45,285 - \$70,555**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. **Applicants must be United States citizens or permanent residents. Only in the absence of qualified U.S. citizens will permanent residents who are citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens be considered.** Further information on Federal employment of non-citizens is available at <http://www.opm.gov/employ/html/citizen.htm>.

The filing deadline for these post-doctoral positions is **May 10, 2002**. If you are interested, please send the following to Ms. Dorothy Carr: **a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus, desired position(s)** (see NERL Internet site below for specific positions), **country of citizenship, and citizenship status** (citizen or permanent resident). If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via **regular mail**, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-C639-02), Research Triangle Park, NC 27711, Attn: NERL Post-Doctoral Program. If you send your application via **express**, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, MD-C639-02, 4930 Old Page Road, Research Triangle Park, NC 27709, Attn: NERL Post-Doctoral Program. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Application materials must be received in the Human Resources Office or postmarked by **May 10, 2002**. Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **July 12, 2002**.

For specific job information on the NERL post-doctoral program, you may access the National Exposure Research Laboratory's Internet site at [www.epa.gov/nerl](http://www.epa.gov/nerl). EPA provides reasonable accommodations to applicants with disabilities. If you need a reasonable accommodation for any part of the application and hiring process, please notify the Agency. The decision on granting reasonable accommodation will be on a case-by-case basis.

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# Women in Science: Beyond the Glass Ceiling



CAROLINE KANE

**BERKELEY, California:** A key stimulus that can persuade young women to become scientists and seek promotions is exposure to successful women scientists. Unfortunately, opportunities for such interactions are often limited. One opportunity is to hear outstanding women scientists speak. Yet few of these women receive invitations to speak at major meetings, join review panels, or to work on professional committees.

The Women in Cell Biology Committee of the American Society for Cell Biology is sponsoring a project that, it hopes, will change that situation. "The committee has talked ever since its inception about how to raise the visibility of women who are exquisite in their science," says Caroline Kane, an adjunct professor of molecular and cell biology at the University of California, Berkeley. "We've been frustrated by the numerous meetings that have had no women on the platform."

To address the problem, the committee has set up a Resource Bureau, headed by Kane and Sandra Masur of the Mount Sinai School of Medicine. It will facilitate efforts to reflect more directly the "diversity of excellence in committees, review panels, and meeting speakers." To achieve that end, says Kane, "We've come up with a list of prominent women, good in their science and excellent speakers in their own right, who are willing to recommend people as speakers and panel members."

Why list women to recommend other scientists rather than offer to speak themselves? "We felt that this would be more useful, especially with men who would recognize the names of prominent women scientists," Kane explains. "Just this year we've added the names of three men who are very interested in promoting the development of women scientists. Some men who would be embarrassed to admit that they don't know any women scientists would be willing to call another man."

The Resource Bureau also encourages women to volunteer their services early in their scientific careers. "It is a way to get younger women scientists to put themselves forward," says Kane. "People in the bureau are especially interested in recommending younger women scientists who are up and coming."



ANN FAHEY-WIDMAN

**ABBOTT PARK, Illinois:** "As a company we're focusing aggressively on promoting talented women and minorities into leadership," says Ann Fahey-Widman, manager of public affairs at health care company Abbott Laboratories. "Since 1999, when Miles White took the helm as chairman and CEO, we have increased the number of women in science management

by 64 percent. We now have well over 100 women in senior science positions."

Abbott's effort to increase diversity has several facets. "In 1999 we put together guidelines for a formal mentoring program in



SIOBHAN  
NIBHUACHALLA

every one of our divisions," says Fahey-Widman. "The Global Pharmaceutical Research and Development Division that contains most of our scientists is building a formal mentoring program that it will launch this year. But informal mentoring happens all the time. The culture of the company encourages it."

Both female and male scientists at Abbott can expect to participate soon in a science leadership development program. "We have developed internal and external curricula, using the University of Chicago for the external studies," says Siobhan Nibhuachalla, director of scientific communications for the Global Pharmaceutical Research and Development Division. "They will focus on all areas of leadership, including business practice and negotiation and communication skills. We will also offer internships in different departments to give scientists a feel for how the company is run. They'll learn in the classroom and apply their learning to real life situations." In addition, the company frequently moves its scientists laterally into other departments and divisions. "That gives people the opportunity, guided by mentors, to get depth and breadth of experience," says Fahey-Widman.

Abbott recognizes differences between men and women in science and across all disciplines. "They communicate differently and manage differently," says Fahey-Widman. "Smart companies recognize those differences and build an environment in which the differences are not only realized but harnessed for the good of everyone. The opportunities are here for talented scientists, both men and women. It's talent that counts, not gender."



ANNEILA SARGENT

**PASADENA, California:** Three years ago, women faculty members at MIT issued a report that accused their institution of prejudice against them. The report did more than stimulate action by MIT's corporation to level the playing field. Every female faculty member at the California Institute of Technology signed a letter to Caltech president David Baltimore requesting a similar study. Caltech's administration responded positively and in the next months the study got under way, chaired by Anneila Sargent, professor of astronomy and director of Caltech's Owens Valley Radio Observatory and Interferometry Science Center.

"In essence, our charter was to look at women and men in similar positions at Caltech and decide whether the women were worse off or better off and whether men had similar problems," Sargent recalls. "We were also asked to suggest how to make Caltech a better place for everybody to carry out its teaching and research mission."

The report, released in November, concludes that "female faculty are markedly more dissatisfied than their male peers" at Caltech. "Our study found that, given the dearth of women, anecdotal evidence of some kind of gender bias, and a lack of female representation in the

challenge innovation teamwork

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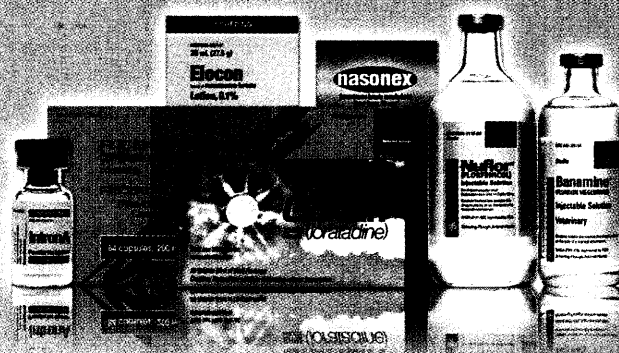
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# Women in Science: Beyond the Glass Ceiling

higher academic administration, we needed more women for the good of the institute as well as for the women themselves," says Sargent. "For example, we need more women faculty to help get more women into higher administrative positions. We now have 11 percent women faculty. We suggested a goal of 25 percent in 10 years."

The report also calls for better mentoring of all junior faculty, male and female. "Male professors agreed about the need to mentor everybody," Sargent says. "Most divisions are setting up formal mentoring programs."

How has Caltech's administration reacted to the report? "The administration agrees that it should increase the number of women," says Sargent. "It strongly supports better mentoring of all junior faculty. There are some reservations about focused programs to recruit women, as they worry about women whom they bring here being perceived as tokens. But the overall reception has been very positive."



SIBRINA COLLINS

**WASHINGTON, D.C.:** The American Association for the Advancement of Science (AAAS) has created a new network. A collaborative effort between the AAAS directorate of human resources and *Science's* Next Wave, the Minority Scientists Network opened for business last month. "It has the goal of providing some support for women and underrepresented minority students in science, mathematics, and engineering," says Sibrina Collins, the network's manager.

The network will work at three levels: a website, national meetings, and local activities. "Students need information on making educational and career decisions," says Collins. "We're going to provide first-person testimonials from minority and women scientists who have essentially been there and done that. We'll have links to information and chat capability on the website. We'll also run workshops on making the transitions from two-year community colleges to four-year colleges to postgraduate programs."

Collins recognizes that, while women scientists' prospects have improved in recent years, plenty of work remains. "I recently attended an exploratory meeting focusing on women in scientific and engineering fields," she says. "The theme was development of an interorganizational network to strengthen the role of women in science. Many women there held leadership positions in their organizations. But the need for the network indicates that we still have to achieve a truly level playing field."

Collins herself exemplifies the leadership opportunities now available to women early in their careers. She had strong mentoring from female and male advisers: Regina Zibuck in her undergraduate years at Wayne State University and Bruce Bursten during her Ph.D. in organic chemistry at Ohio State University. Collins was carrying out a postdoctoral fellowship in analytical chemistry at Louisiana State University with Isiah Warner when she saw an advertisement for the manager's job that she landed. "I felt I was

reading about myself," she says. "It has been rather challenging for me moving up from being president for a student organization to a postdoctoral fellow to managing the new network. But I have encountered no glass ceilings."



JIAHONG JUDA

## ARLINGTON HEIGHTS, Massachusetts:

However successful their advancement in traditional institutions, female scientists face one final challenge. "Women lack effective networks for science based entrepreneurship," says Jiahong Juda, cofounder and president of Women Entrepreneurs in Science & Technology (WEST). "We have identified a huge gap

between knowing how to do research and how to develop good business ideas."

Juda encountered that problem first-hand while serving as executive vice president of Massachusetts company Speech Technology & Applied Research. "The company had cash flow problems and I really tried to help," she explains. "But I lacked the necessary know-how and network."

In response she founded WEST in collaboration with Paula Wamsley and Barbara Witney, whom she had met while doing her Ph.D. in physics at the University of Wisconsin, Madison. "We realized that many women scientists are very underutilized," Juda says. "There is plenty that women scientists can offer, and entrepreneurship can be a great vehicle." Other women agreed. Just 18 months after it incorporated, WEST has 130 members and a mailing list of over 1,200.

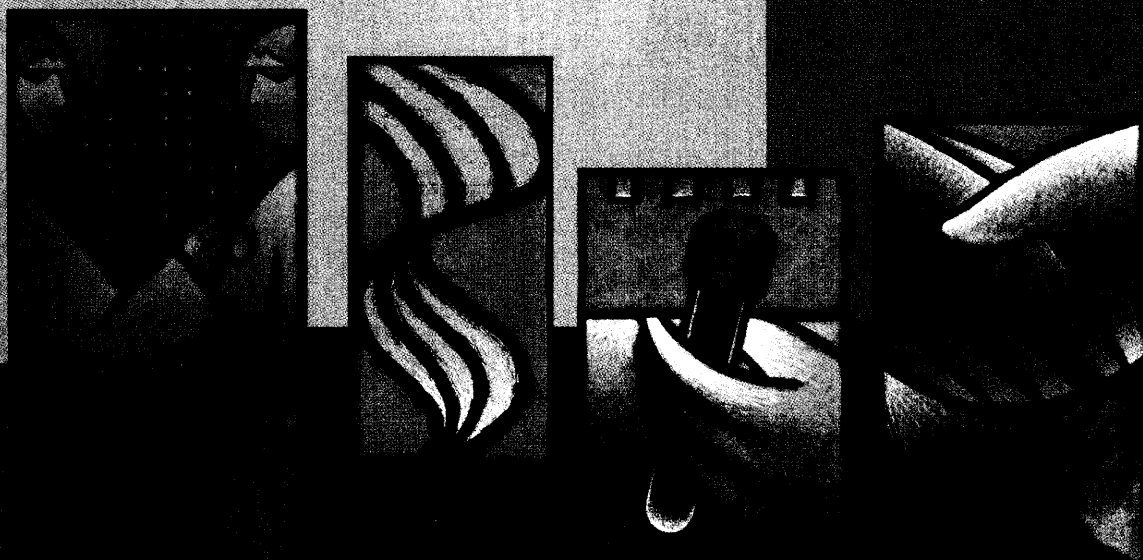
The organization runs regular seminars in which successful entrepreneurs — male and female — talk about their experiences. "We also have a quarterly series called 'Meet the Investors' to help technical people meet investors on a personal level and understand the issues that they face," says Juda. "And we are looking to get a group of experts to provide our members with timely access to knowledge. One member provides guidance on intellectual property, for example. Another, who is an attorney, deals with legal questions."

As it grows, WEST will introduce more programs. One will focus on intrapreneurship — setting up new groups under the umbrella of an existing organization. "It's probably easier for women to get into this," says Juda. "So we're developing an intrapreneur program to look at how women can get their foot in the door and how their companies can benefit." Another involves mentoring. "Having

prominent and less prominent women entrepreneurs as role models is important," Juda continues. "The prominent ones can inspire people and set high standards, while mildly successful ones are easier for people to relate to." ■

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## DIRECTOR - PROGRAM IN HUMAN GENETICS UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

**School of Medicine** The University of California, San Francisco, seeks a visionary leader to fill the Lamond Distinguished Chair in Human Genetics and to serve as Director of the UCSF Program in Human Genetics. The new Director will be provided with faculty positions, laboratory space and funds, in addition to substantial existing resources for human genetics, to create a program of research excellence across the spectrum of this broad and dynamic field. The new Director is expected to be internationally recognized in some aspect of human genetics, such as genomics, bioinformatics, gene discovery, cytogenetics, statistical genetics, population genetics, evolutionary genetics, or the genetics of complex diseases, and to display a broad interest in these areas as each applies to human genetics. The new Director should have administrative skills and the ability to inject energy and imagination into the development of a powerful Program that interfaces and synergizes with other elements of the outstanding research environment at UCSF.

*UCSF is an affirmative action/equal opportunity employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

Please send your curriculum vitae by May 1, 2002 to:

**Keith R. Yamamoto, Ph.D.**

**Chair, Search Committee**

**c/o Cal Johnson**

**Office of the Dean/School of Medicine**

**513 Parnassus, Room S-224**

**San Francisco, CA 94143-0410**

or via email, in a Word '97 compatible format to:

**[johnson@medsch.ucsf.edu](mailto:johnson@medsch.ucsf.edu)**

## UIC University of Illinois at Chicago

### Head Biochemistry and Molecular Genetics

Applications and nominations invited for the position of Head of the Department of Biochemistry & Molecular Genetics at the University of Illinois at Chicago (UIC). The Head will be charged with integrating the faculties of Biochemistry & Molecular Biology and of Molecular Genetics, consisting of 29 full-time members with well-supported research programs funded in excess of \$11 million in the current year, including 30 NIH research and training grants. The Head will also be charged with the growth of programs in genomics, proteomics and related sciences. The graduate programs are strong, with 78 current Ph.D. students.

The successful candidate should have a Ph.D. and/or M.D. degree, be of national stature, with an active funded research program that fits well with department's mission, exceptional administrative skills, vision and drive to ensure successful integration and growth. Should be eligible for professorship with tenure.

For fullest consideration, nominations or letters of application, along with curriculum vitae and names of at least three references should be submitted by June 1, 2002 to:

**Asrar B. Malik, PhD, Distinguished Professor and Head,  
Department of Pharmacology**

**Chair, Biochemistry and Molecular Genetics Head Search Committee**

**c/o Gregory S. Pittsley, Dean's Office**

**UIC College of Medicine at Chicago**

**1853 W. Polk Street, Room 131 CMW (M/C 784)**

**Chicago, Illinois 60612**

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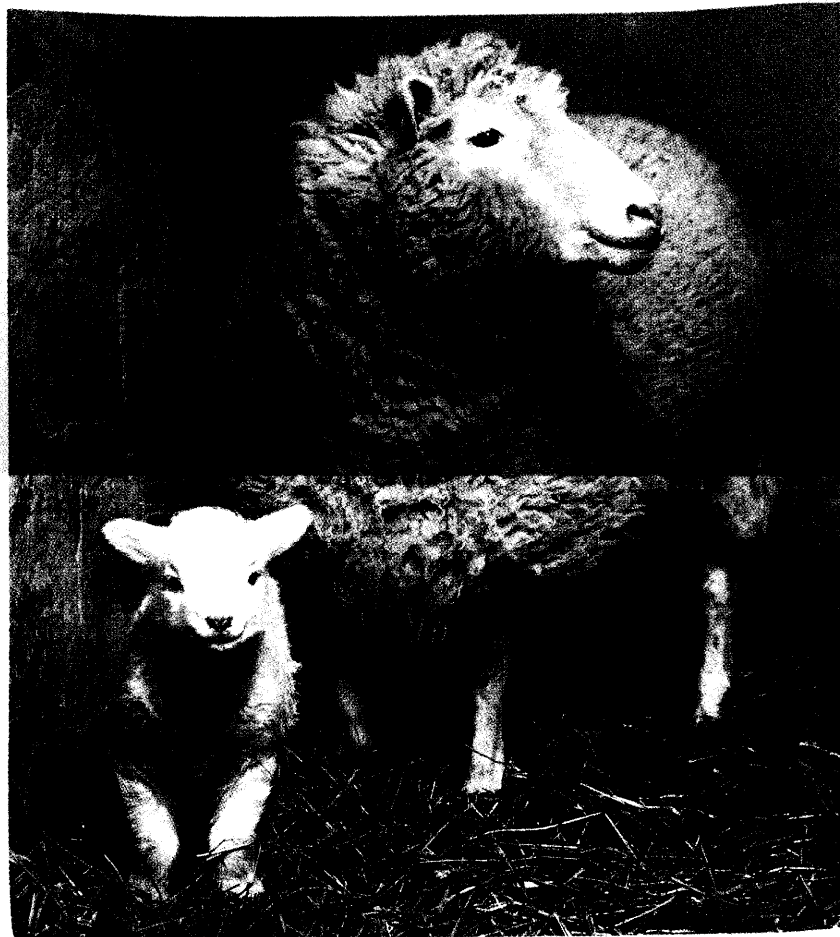
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Dolly the Sheep was born in Scotland, but her fame is international. And she's just one example of Scotland's unique capacity for innovation in everything from biotech to electronics.

As the first mammal cloned from an adult cell, Dolly was a direct result of Scotland's thriving and inventive biotech industry. In electronic design, our innovative Alba Campus is leading the world's R&D in System Level Integration technology and promoting enormously successful collaborations between top universities and private sector partners in the industry.

Our highly skilled, highly motivated and experienced workforce has enticed a number of companies to expand in Scotland — including Quintiles, Agilent, Panasonic Owl, IBM and Sun Microsystems. Scottish Development International is a government-funded organisation that provides your business with recruitment, location and support services. This ensures you full access to

the knowledge of our Scottish companies, our research, technology, innovation, people and wit. To find out more about bringing your business to Scotland, or bringing Scots to your business, visit our Web site. [www.scottishdevelopmentinternational.org](http://www.scottishdevelopmentinternational.org)

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## Two Postdoctoral Fellow Research Positions-Neurobiology

We have two Postdoctoral Fellow Research positions available immediately for collaborative studies between members of the RS Dow Neurobiology Laboratories and the Devers Eye Institute (G.A. Cioffi, MD) at Legacy Clinical Research Center in Portland, Oregon.

Our first position will be under the direction of An Zhou, Ph.D. and the goal of this project is to study the mechanisms of neurogenesis in the CNS after ischemic brain and ischemic retinal injury. The focus will be on the biosynthesis of neuropeptides (neurotrophic factors and peptide neurotransmitters) and their receptors in various brain cell types, including progenitor cells, using established ischemia models. Requires a Ph.D. with a strong technical foundation in cell biology and/or protein biochemistry.

The second position will be under the direction of Julie Saugstad, Ph.D. and the project will study the role of metabotropic glutamate receptors in the neurodegeneration of the brain and retina using established models. The focus will be to determine the molecular mechanisms of retinal degeneration that lead to glaucoma, and to identify new avenues of therapeutic intervention that could retard and/or prevent this neurodegeneration. Requires a Ph.D. with experience in molecular/cell biology, biochemistry and/or neurobiology.

Please contact Linda Stent at [lstent@lhs.org](mailto:lstent@lhs.org) or call 866-888-4428, ext. 8 for any additional information. You may also apply on-line at [www.legacyhealth.org](http://www.legacyhealth.org) with Job #068294. AA/EOE.



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Tularik Inc. is a biopharmaceutical co. dedicated to the discovery and development of novel therapeutic agents. In this integral role, you will be involved in the operation of a state-of-the-art DNA chip facility, and novel cancer gene discovery. Qualified candidates will possess a Ph.D., a solid background in molecular biology, and demonstrate an ability to work with robotics and informatics. This is a great opportunity for advanced training and interaction with scientists working on cancer gene discovery in our genomics division, as well as collaborators at the Cold Spring Harbor Laboratory. Tularik offers stock options, a competitive salary, and benefit package. For immediate consideration, please submit your CV to **Tularik Inc., Human Resources, 266 East Pulaski Rd Suite 1, Greenlawn, NY 11740. Fax 631-271-6560; email [resume@tularik.com](mailto:resume@tularik.com)**

## Department of Physics Professorship in Experimental Physics

Minimum £39,004 per annum

The Department is seeking to enhance and broaden its research with the appointment of a Professor of Experimental Physics. Currently the Department has strong international experimental activities in Condensed Matter Physics, Surface Science, Structural and Materials Science and Semiconductor Physics, which are described at [www.phys.warwick.ac.uk](http://www.phys.warwick.ac.uk). The successful candidate will be an outstanding scientist with an established international reputation. This Professorship is a permanent position, available from 1st October 2002.

Informal enquiries can be made to the Head of Department, Professor Malcolm Cooper (tel: 024 7652 3379, e-mail: [M.J.Cooper@warwick.ac.uk](mailto:M.J.Cooper@warwick.ac.uk)).

Application forms and further particulars can be obtained from the Personnel Office, University of Warwick, Coventry CV4 7AL. Telephone: 024 7652 3627 and from [www.jobs.ac.uk/jobfiles/AC1384.html](http://www.jobs.ac.uk/jobfiles/AC1384.html)

Please quote reference 32/A/01

Closing date for applications is 12 April 2002

Email: [recruit@warwick.ac.uk](mailto:recruit@warwick.ac.uk)

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## WAYNE STATE UNIVERSITY

**Institute of Environmental Health Sciences  
Assistant/Associate Professor or Professor**

The Institute of Environmental Health Sciences at Wayne State University invites applications for tenure-track positions at all ranks in the area of molecular genomics, including the use of high throughput technologies, such as microarray/global gene expression analysis and polymorphism analysis, as used in research on cell signaling, cell function, gene-environment interactions and disease. The IEHS offers highly competitive start-up packages and a research-intensive environment. The Institute of Environmental Health Sciences is the home of the Environmental Health Sciences Center in Molecular and Cellular Toxicology with Human Applications ([www.ehscenter.org](http://www.ehscenter.org)) which provides cell culture, imaging and cytometry and high throughput molecular genomics facility core support.

Please send curriculum vitae and the names of three references to:

**Raymond F. Novak, Ph.D.  
Director, Institute of Environmental Health Sciences  
2727 Second Avenue, Room 4000  
Detroit, MI 48201**

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# VETENSKAPSRÅDET

## THE SWEDISH RESEARCH COUNCIL

The Swedish Research Council has a national responsibility for the development of Swedish basic research and information about research. The Council prioritises and finances basic research of the highest scientific quality in all fields of science. The goal is to ensure that Sweden holds a leading position as a nation engaged in research.

The Swedish Research Council is a public agency under the auspices of the Ministry of Education and Science. The secretariat contains about 130 persons.

**THE SWEDISH RESEARCH COUNCIL**  
Natural and Engineering Sciences invites applications for

## SENIOR RESEARCH POSITIONS in

### **Communication Networks** (Ref: 629-2001-6200)

The topic concerns construction and analysis of communication networks. The applicant should have a good background in several of the following areas: communication systems, stochastic processes and queuing theory, simulation of infrequent events, and resource allocation.

### **Computational Studies of Atomic Level Related Processes and Properties of Materials** (Ref: 629-2001-6195)

### **Intersection Theory and Moduli Spaces** (Ref: 629-2001-6204)

### **Macromolecular Recognition of Ligands - Design, Synthesis, and Function** (Ref: 629-2001-6201)

Theoretical and experimental research on molecular recognition between small ligands and natural or synthetic macromolecules.

### **Nanotechnology** (Ref: 629-2001-6202)

Nanotechnology with a technical/physical and/or bioscientific approach, for example combining preparation/synthesis and characterization of nanostructures with functional studies.

### **Physical Climatology** (Ref: 629-2001-6198)

The research area comprises scales and scale dependence, the physical processes behind interactions between clouds and radiation, as well as global and regional teleconnections. This includes studies of historic climatological series and development of parametrizations for climate models.

### **Superstring Theory** (Ref: 629-2001-6205)

The Council's intention in creating these positions is to contribute to the recruitment of researchers and to the renewal of research in Sweden. The programme is aimed primarily at scientists with a doctorate who recently have established themselves as independent researchers and have started and established an active research career. The positions are held for three plus three years and are placed at appropriate university departments in Sweden to be chosen by the candidate in consultation with the Council and the suggested university. The applicant is kindly requested to state at which university he/she wants the position. The universities decide on tenure. Duties can commence from July 1, 2002. The salary range will correspond to that of an assistant/ associate professor. A curriculum vitae including a list of publications, a short research plan plus a description (maximum six pages) of scientific achievements and pedagogical skills, and a maximum of ten reprints of scientific papers should be appended. Other documents which the applicant wants to refer to could also be included. Four copies of the application and all appendixes and reprints should be submitted. Applications, quoting Ref, should reach the Swedish Research Council, NT, S-103 78 Stockholm, Sweden, by April 2, 2002.

Further information can be obtained from Ms Natalie Lunin at the Secretariat of The Swedish Research Council, phone no +46 8 546 44 232, e-mail-address Natalie.Lunin@vr.se, fax no +46 8 546 44 180.

## Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 2002 in its training program, now in its 27th year for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology and research that interfaces with clinical and physical sciences. Special programs are organized for Fellows. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

The program has promoted training for women in science since its inception, and many alumnae have gone on to successful careers in academic centers, the biotechnology and pharmaceutical industries and government laboratories. This commitment is also reflected by the outstanding women scientists selected to be preceptors in the program.

Preceptors are: Shawn Ahmed, Steven Bachenheimer, Albert Baldwin, Victoria Bautch, David Brenner, Keith Burrage, Sharon Campbell, Stephen Chaney, David Clemmons, Edward Collins, Marila Cordeiro-Stone, Blossom Damania, Channing Der, Robert Duronio, Shelton Earp, Beverly Errede, Jeffrey Frelinger, Frank French, Jack Griffith, Eng-Shang Huang, Clyde Hutchison III, Kenneth Jacobson, Rudolph Juliano, David Kaufman, William Kaufmann, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Patricia Maness, William Marzluff, Beverly Mitchell, Joseph Pagano, Leslie Parise, Mark Peifer, Charles Perou, Tom Petes, Nancy Raab-Traub, James Raleigh, Dale Ramsden, R. Jude Samulski, Aziz Sancar, Oliver Smithies, John Sondek, Ronald Swanson, Lishan Su, Holden Thorp, David Threadgill, Jenny Ting, Michael Topal, Terry Van Dyke, Kevin Weeks, Bernard Weissman, Elizabeth Wilson, Yue Xiong and Yi Zhang.

Candidates must be U.S. citizens or permanent residents. For an informational brochure or to apply (include curriculum vitae, three letters of recommendation, a statement of research interests and graduate school records) write to:

**Joseph S. Pagano, M.D.**  
CB 7295

**UNC Lineberger Comprehensive Cancer Center School of Medicine**  
**University of North Carolina at Chapel Hill**  
**Chapel Hill, NC 27599-7295**  
<http://cancer.med.unc.edu>

*UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer.  
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## Interdisciplinary: Supervisory Research Plant Physiologist/Research Geneticist/Research Molecular Biologist/Research Chemist (Research Leader)

The USDA, Agriculture Research Service (ARS) is seeking a Research Leader for the Soybean and Nitrogen Fixation Research Unit in Raleigh, NC at N.C. State University. Salary commensurate with experience GS 14/15 (\$76,271 - \$116,633). The Research Leader will lead a multi-disciplinary team of scientists responsible for planning, conducting, and reporting research on the development of value-added traits in soybeans. The research will focus on developing, primarily through fundamental hypothesis-driven science, technologies that improve the quality, economic worth, nutritional value and productivity of soybeans. Specific objectives of the research include identifying or creating new sources of genetic variation for subject traits; defining the function of gene mutations or environmental variables that control trait expression; and developing innovative genetic tools or methods to accelerate germplasm enhancement. The incumbent will also supervise a staff of research and support scientists, technical and administrative staff. A Ph.D. or equivalent in plant physiology or botany, genetics, molecular biology, chemistry or other related scientific discipline in biological sciences is desired. Vacancy announcement containing information on basic and specialized experience and competencies may be obtained at <http://www.afm.ars.usda.gov/divisions/hrd/index.html>. Announcement number ARS-X2S-2142. Position closes May 13, 2002. For specific application procedures and requirements please contact Susan Davis 919 515-2731 or [susan\\_davis@ncsu.edu](mailto:susan_davis@ncsu.edu). Must be a U.S. citizen. USDA-ARS is an Equal Opportunity provider and employer.

## POSTDOCTORAL FELLOWS COLUMBIA UNIVERSITY INSTITUTE OF HUMAN NUTRITION

Applications are available for postdoctoral fellowships in the Institute of Human Nutrition of Columbia University. Specific areas of research are:

**Domenico Accili, M.D.** Genetics of insulin resistance; insulin action; animal models of diabetes

**William S. Blazer, Ph.D.** Retinoids and vitamin A metabolism

**Streamson C. Chua, M.D., Ph.D.** Genetic basis of obesity

**Carol N. Bozler, D.Sc.** Molecular genetics of lipoprotein metabolism in humans and induced mutant mouse models

**Jeanine M. D'Armiento, M.D., Ph.D.** Metalloproteases and lung pathophysiology

**Richard J. Deckelbaum, M.D.** Lipoprotein-receptor-cell interaction; lipid emulsion metabolism; free fatty acids and cell lipid-lipoprotein metabolism

**Bernard F. Erlanger, Ph.D.** Biologically significant receptors, the relationship of their structures to their metabolic and regulatory activities

**Dympna Gallagher, Ed.D.** Tissue and organ specific metabolic rate; race, age, growth, and weight loss effects on resting metabolic rate; race, and pubertal effects in pediatric body composition

**Anne A. Gershon, M.D.** Virus infectivity; infant immunity relevant to viral infections; varicella-zoster virus (VZV)

**Michael D. Gershon, M.D.** Enteric nervous system

**Henry N. Ginsberg, M.D.** Regulation of plasma lipoprotein metabolism; regulation of apolipoprotein B secretion from hepatocytes

**Ira J. Goldberg, M.D.** Lipoprotein metabolism; lipolytic enzymes; endothelial cell biology; atherosclerosis

**Maxwell E. Gottesman, M.D.** Gene transcription and regulation; cancer; thyroid physiology

**Steven B. Heymsfield, M.D.** Studies of body composition and energy expenditure

**Geoffrey R. Howe, Ph.D.** Nutrition and cancer; radiation and cancer

**Li-Shin Huang, Ph.D.** Genetic regulation of apolipoprotein B secretion; fatty acids and gene interactions; and transgenic and knockout mouse models of lipoprotein metabolism

**Sudha Kashyap, M.D.** Nutritional support of pre-term infants

**Harry R. Kissileff, Ph.D.** Psychology of eating disorders

**Rudolph L. Leibel, M.D.** Biology of weight regulation and the genetic bases of obesity and diabetes

**Cathy L. Mendelsohn, Ph.D.** Molecular pathways involved in embryonic development

**Frederica P. Perera, Dr.P.H.** Molecular epidemiology; risk assessment; carcinogenesis

**Francis Xavier Pi-Sunyer, M.D.** Carbohydrate and lipid metabolism; obesity; diabetes mellitus; food intake regulation

**Ravichandran Ramasamy, Ph.D.** Metabolic basis of heart failure; polyol pathway and ischemic injury, ion regulation in ischemia and heart failure

**Regina M. Santella, Ph.D.** Monitoring of dietary and environmental exposure to chemical carcinogens

**David Schachter, M.D.** Calcium metabolism

**Neil Shachter, M.D.** Dyslipidemia and HIV protease inhibitors; proteoglycans and diabetes; molecular mechanisms of hypertriglyceridemia in mouse models

**Cy A. Stein, M.D., Ph.D.** Development of antisense technology

**David M. Stern, M.D.** Vascular cell biology; pathogenesis of blood vessel diseases; pathogenesis of thrombosis

**Stephen L. Sturley, Ph.D.** Extracellular and intracellular sterol transport

**Ira A. Tabas, M.D. Ph.D.** Regulation of intracellular cholesterol esterification; lipoprotein endocytic pathways in macrophages

**Alan R. Tall, M.D.** Plasma lipoprotein metabolism; atherosclerosis; regulation of gene expression; molecular nutrition

**David A. Talmage, Ph.D.** Signal transduction and cancer; interactions between retinoids and protein kinases

**I. Bernard Weinstein, M.D.** Molecular mechanisms of carcinogenesis

**Christine Williams, M.D., M.P.H.** Health promotion in children to decrease adult chronic disease risks

**Debra J. Wolgemuth, Ph.D.** Processes underlying meiosis and differentiation of mammalian germ cells; embryonic development

U.S. citizens or permanent residents who wish to receive advanced training in any of these areas of nutrition are encouraged to apply. Applicants should send curriculum vitae to Dr. David A. Talmage, Institute of Human Nutrition, Columbia University, 630 West 168th Street, PH 1512, New York, NY 10032; phone (212) 305-4808; fax (212) 305-3079; [nutritiv@cpmc3.cis.columbia.edu](mailto:nutritiv@cpmc3.cis.columbia.edu)

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**Spanish National Cancer Centre**  
Centro Nacional de Investigaciones Oncológicas



The CNIO is a new Cancer Centre dedicated to excellence in basic and applied cancer research. To this end, our strategic plan (2000-2005), envisages the implementation of basic research programmes in Molecular Oncology, Cancer Genetics, Molecular and Structural Biology and Biocomputing, as well as applied research programmes in Molecular Pathology, Experimental Therapeutics, and Medicinal Chemistry. A Biotechnology Programme that encompasses several technological Units (Microarrays, gene-targeted mice, molecular cytogenetics, monoclonal antibodies, immunocytochemistry, etc.) provides the necessary technical support to all of the above programmes. With research very much underway, we already have a team of 150 people, of which 120 correspond to scientific staff. By 2005, we anticipate a total scientific staff of 500 (see our Scientific Report 2001 on our web site [www.cnio.es](http://www.cnio.es))

A further goal of the CNIO, is to become a reference for the scientific community as a centre for the open discussion of hot topics of general interest in cancer research. We intend to achieve this goal through the organisation of specialised conferences surrounding such topics – namely, the **CNIO Cancer Conferences (CCC's)**.

With 4 conferences each year, the CCC's will bring together groups of 20-25 scientists in a specific field related to cancer research to share their latest findings. The CCC's will also have a selected group of around 30 participants, most of them chosen among the top postdocs and graduate students in the field. The emphasis will be placed upon a workshop environment to ensure lively and constructive debate throughout each conference – to this end it is expected that all participants along with speakers attend all sessions.

#### **IMMEDIATE CALL FOR APPLICANTS:**

##### **CANCER EPIGENETICS: DNA METHYLATION AND CHROMATIN – Madrid, May 29-31 2002**

ORGANISERS: Manel Esteller and Stephen B. Baylin

SESSIONS: DNA Methylation and Chromatin Machinery, Alterations of DNA Methylation and Chromatin in Cancer and Human Disease, Impact of DNA Methylation and Chromatin in Biotechnology

**APPLICATION DEADLINE: April, 2, 2002**

More detailed information surrounding the final programme, applications, abstract submission, can be found on our website: <http://www.cnio.es/ccs>  
General enquires may be sent via e-mail to [ccc@cnio.es](mailto:ccc@cnio.es)

#### **FORTHCOMING CCC's**

**THE CELL CYCLE AND CANCER – Madrid, September 30-October 2, 2002**

Organisers – Marcos Malumbres, Charles Sherr, and Jiri Bartek

Application Deadline: June, 28, 2002

**MECHANISMS OF INVASION AND METASTASIS – Madrid, November 18-20, 2002**

Organisers – Joan Massagué and Richard Hynes

Application Deadline: August, 19, 2002

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### Research Scientist I, Protein Crystallography

Provide expertise in obtaining protein samples for crystallization experiments; determine protein structures with X-ray crystallographic methods; and utilize structure information to impact drug discovery programs. Experience with parallel approaches to generate protein samples for crystallization and high throughput methods of protein crystallization and structure determination is necessary. Requires a PhD or equivalent in Biochemistry, Biophysics or related field and 2+ years of postdoctoral experience. Experience with cloning, mutagenesis, production of mammalian proteins in several expression systems, protein purification and crystallization techniques are advantages. Job Code: 2497-SCI

### Research Associate III/Scientist I, Respiratory Diseases

Develop and implement animal models of asthma, chronic bronchitis and emphysema that will be used to identify novel disease targets and to screen for potential therapeutic candidates. Requires a BS/MS or equivalent in Pharmacology, Physiology, and/or Immunology and 3+ years experience with a strong background in these disciplines. Must have a strong *in vivo* background and the ability to work independently as part of a multidisciplinary research team. Industry experience working in the pulmonary field is advantageous. Job Code: 2496-SCI

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## Bioinformatics Assistant Professor

The University of Texas M. D. Anderson Cancer Center, the nation's premier cancer center, is seeking an assistant professor to join our active bioinformatics group in the Department of Biostatistics. The candidate will assist researchers in our proteomics facility. The candidate should have a Ph.D. in a computational science (bioinformatics, statistics, mathematics, computer science, or physics). Working knowledge of molecular biology, genomics, or experience analyzing microarray data or SAGE data would be a plus. Must be willing to combine an active research program in bioinformatics and biostatistics with collaborative ventures with biologists and clinicians.

Celebrating over six decades of Making Cancer History, UT M. D. Anderson Cancer Center is ranked one of the top two cancer centers in the nation and has been highly ranked in several specialty categories since 1990 in *U.S. News & World Report's* "Best Hospitals" survey. Located within the Texas Medical Center campus in Houston, our location provides access to a world-renowned medical community and the splendid cultural and recreational diversity of a sophisticated, metropolitan area that is the country's fourth largest city.

Please send curriculum vitae, a brief summary of research experience, and names and contact information for three references to: **Kevin Coombes, Ph.D., The University of Texas M. D. Anderson Cancer Center, Department of Biostatistics, 1515 Holcombe Blvd., Box 447, Houston, TX 77030-4009.**

THE UNIVERSITY OF TEXAS  
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## CANCER GENETICS RESEARCH Roswell Park Cancer Institute

The Department of Cancer Genetics at Roswell Park Cancer Institute (RPCI) is seeking candidates to fill several ASSISTANT AND ASSOCIATE LEVEL faculty positions. Successful candidates will be expected to establish independent research programs (Assistant) or have an established record of competitive funding (Associate). Individuals with research programs related to the genetics of breast, prostate, colon and lung cancers are encouraged to apply, although those with research programs in other organ sites are welcome. Although not essential, these programs could embrace high-throughput genomics, proteomics, and microarray technology. RPCI is a National Cancer Institute comprehensive cancer center which provides exceptional opportunities for interactions with clinical departments, superb core facilities to support individual research, and a strong commitment to interdisciplinary interactions. A phased program of recruitment over the next three years is designed to further broaden the areas of cancer genetics research undertaken in the Institute.

Excellent salaries and benefits, together with generous start-up support for equipment, supplies, and personnel are available. Applications, including a curriculum vitae, statement of research interests, and names of three references, should be sent to:

**John K. Cowell, Ph.D.**  
**Chair, Cancer Genetics**  
**Search Committee**  
**Roswell Park Cancer Institute**  
**Elm and Carlton Streets**  
**Buffalo NY 14263**



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## POSITIONS OPEN

### **UIC** The University of Illinois at Chicago

Three new positions at the ASSISTANT/ASSOCIATE PROFESSOR level are available within the Center for Magnetic Resonance Research ([website: http://www.uic.edu/com/mrc](http://www.uic.edu/com/mrc)) with cross-appointments to Departments in the Colleges of Medicine, Arts and Sciences, and Engineering at the University of Illinois at Chicago. The research MRI equipment includes a 3T whole-body scanner (GEMS Signa, LX) housed in a new facility adjacent to the hospital and animal care facility. The world's first 9.4 Tesla whole-body human scanner is under production for delivery in the summer of 2002 when its new building will be completed. In addition to conventional MRI, the research capabilities include diffusion tensor, perfusion, sodium, phosphorus, routine functional (BOLD) MR imaging, MRA, and MR spectroscopy. Potential clinical and research collaborations exist with Neurosurgery, Neurology, Cardiology, and Psychiatry. The successful applicants will have at least two years of experience in MR physics and MR instrumentation on human scanners along with a Ph.D. in a mathematical, scientific, or computer science discipline. Experience in pulse sequence development and hardware on the GEMS platform is preferred.

The candidate should be motivated to work in a collaborative, state-of-the-art clinical and research environment and be able to demonstrate independent research abilities. Please forward curriculum vitae and introduction letter by April 16, 2002, to: **Keith Thulborn, M.D., Ph.D., Professor and Director of Center for MR Research, University of Illinois at Chicago, Room 1191 OCC (M/C 711), 1801 West Taylor Street, Chicago, IL 60612.** UICMC is an Affirmative Action/Equal Opportunity Employer offering competitive salary and benefits package.

### **ACADEMIC PROSTATE CANCER** University of Colorado Health Sciences Center Denver, Colorado

A tenure-track position is open at the University of Colorado Health Sciences Center for a **PH.D. SCIENTIST** with a strong research focus on the study of prostate cancer. This individual will interact with groups interested in hormone biology, early diagnosis, signal transduction, and cell death in this tumor type. Excellent facilities are available for the study of this disease including proteomics, transgenic mice, and genomics. UCHSC is an NCI-designated comprehensive cancer center with available tissue banks and data management resources. Please send curriculum vitae, statement of research interests, and the names and contact information of three references to: **Dr. Michael Glode, UCHSC Medical Oncology, 4200 East Ninth Avenue, B171, Denver, CO 80262. FAX: 303-315-8825.** Position open until filled. Review of applications begins February 15, 2002. University of Colorado Health Science Center is committed to Equal Employment Opportunity/Affirmative Action.

### **POSTDOCTORAL POSITION**

A Postdoctoral position is available immediately to study the molecular basis of the cytokine/chemokine response to viral infection. Studies focus specifically on the signaling pathways leading to NF- $\kappa$ B and interferon regulatory factor activation and the biological roles of these proteins in the coordinate regulation of cytokine gene expression and the control of cell growth (*Mol. Cell. Biol.* 19:959; 20:6342; *J. Biol. Chem.* 275:34320; *Oncogene* 20:800). A strong background in molecular and cellular biology is desirable. Interested individuals should send curriculum vitae and two letters of recommendation to:

**Dr. Rongtuan Lin**  
Assistant Professor, Lady Davis Institute  
3755 Cote Ste Catherine Road  
Montreal, Quebec H3T 1E2 Canada  
FAX: 514-340-7576  
E-mail: [rongtuan.lin@mcgill.ca](mailto:rongtuan.lin@mcgill.ca)

## POSITIONS OPEN

### **COMPARATIVE MOLECULAR PATHOLOGIST**

The Department of Environmental and Molecular Toxicology invites applications for a 12-month, 0.75 full-time equivalent ASSISTANT or ASSOCIATE PROFESSOR position: 0.50 research, 0.25 teaching. This position is funded at 0.75 full-time equivalent by education and general funds. An additional 0.25 full-time equivalency may be sought through research grants and contracts. The individual appointed will be expected to develop and maintain a strong, externally funded independent research program centering on use of fish as lower vertebrate models for carcinogenesis, human toxicology, and environmental health. The appointee should have training in pathology and interest in molecular mechanisms of pathologic change in fish models exposed to xenobiotic agents. Individuals incorporating microarray, proteomics, *in situ* expression, or gene transfer approaches into their programs are especially encouraged to apply. Academic responsibilities include teaching one 10-week course in the departmental curriculum and mentoring M.S. and Ph.D. students. Candidates should have an earned Doctorate in veterinary medicine, pathology, toxicology, biochemistry, molecular biology, or a closely related discipline and at least two years of postdoctoral or professional experience in a relevant area. They should be qualified to participate in the unique constellation of NIEHS-supported activities at OSU: the Marine/Freshwater Biomedical Sciences Center, the Environmental Health Sciences Center, and the Toxicology Training Grant. Opportunities also exist to interact with colleagues in such programs as the Center for Gene Research, the Linus Pauling Institute, and the College of Veterinary Medicine. These programs maintain a wide array of research support facilities ranging from cell culture, flow cytometry, confocal microscopy, carcinogenesis, and pathology to mass spectrometry, high-resolution NMR, crystallography, DNA analysis and synthesis, and microarray analysis, to which the appointee has access. Candidates should send curriculum vitae, an outline of research plans, two to three reprints/preprints of their best representative publications, and arrange for three letters of recommendation to be sent to:

**Professor George Bailey**  
Search Committee Chair  
Department of Environmental and  
Molecular Toxicology  
Oregon State University, ALS 1007  
Corvallis, OR 97331-7301

For full consideration, apply by April 29, 2002.  
OSU is an Affirmative Action/Equal Opportunity Employer with a policy of being responsive to dual-career needs.

### **FACULTY POSITION** **Drug Metabolism/Disposition/ Pharmacogenetics** Texas Tech University Health Science Center School of Pharmacy

The Department of Pharmaceutical Sciences invites applications in the field of drug metabolism for a tenure-track faculty position at the ASSISTANT or ASSOCIATE PROFESSOR level. The Department has 24 full-time faculty positions in both pharmaceutical and biomedical areas. Applicants should have a Doctoral degree and postdoctoral training, preferably with a pharmacy background. Successful candidates will be expected to develop a strong, extramurally funded research program as well as teach and mentor undergraduate and graduate students. Competitive start-up packages and space are available. Applicants should submit curriculum vitae, a summary of research and teaching interests, and names and addresses of three references to: **Dr. Reza Mehvar, Texas Tech School of Pharmacy, 1300 Coulter, Amarillo, TX 79106. E-mail: [rmehvar@ama.ttuhsu.edu](mailto:rmehvar@ama.ttuhsu.edu); FAX: 806-356-4034; website: <http://pharmacy.ama.ttuhsu.edu>.** Electronic applications are encouraged.

Texas Tech University HSC is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.

## POSITIONS OPEN



### **DIRECTOR OF THE STEM CELL CENTER** Northwestern University Medical School

Northwestern University Medical School is seeking a Director of a cross-departmental stem cell center devoted to the study of stem cell biology. As part of its strategic plan, the Medical School has made major commitments for expanding its programs in stem cell sciences. The Director of the Center will have substantial resources for building and expanding stem cell programs both in the basic science and the clinical Departments. The Director will be able to establish new laboratories studying both basic and applied aspects of stem cell biology and will also be able to build interdisciplinary programs throughout the Medical School. Senior Scientists with strong research programs employing innovative molecular/cellular approaches to stem cell biology are encouraged to apply. The candidates must hold a Ph.D. degree or a combined M.D./Ph.D. degree.

This is a full-time, tenured position at the rank of PROFESSOR with salary and starting date negotiable. This is a continuing appointment. To ensure full consideration, submit the following materials: (1) current curriculum vitae and list of publications; (2) brief statement of research interests; and (3) contact information for three references no later than May 1, 2002, to: **Dr. John Kessler, Chairman of the Search Committee, 303 East Chicago Avenue, Ward Building 10-185, Chicago, IL 60611-3078. E-mail: [jakessler@northwestern.edu](mailto:jakessler@northwestern.edu).**

Please refer to Academic Search Number P-192-02. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are especially encouraged to apply.

### **ENVIRONMENTAL STUDIES**

Two-year VISITING ASSISTANT PROFESSOR; begins fall 2002. Teach introductory environmental science course (with laboratory) and either a senior-level interdisciplinary environmental studies seminar course or upper-level elective in discipline. Ph.D. (A.B.D. considered) and commitment to undergraduate teaching and liberal arts education. Expertise in environmental science with background in biological or chemical sciences preferred. Individuals with interdisciplinary experience are encouraged to apply. Areas of formal training can include ecology, conservation biology, oceanography, restoration sciences, biogeochemistry, environmental chemistry, and atmospheric sciences. Interested individuals are encouraged to submit interest letter; curriculum vitae; teaching statement (including course descriptions and evaluation materials); statement of research interests; and three letters of reference postmarked no later than April 3, 2002, to ensure consideration. Send materials to: **Environmental Studies Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98406.** An Equal Opportunity/Affirmative Action Educator/Employer.

**FACULTY POSITION**  
**CHEMICAL PATHOLOGIST or CLINICAL CHEMIST:** The Department of Pathology and Laboratory Medicine at the University of Pennsylvania's School of Medicine seeks candidates for an ASSISTANT/ASSOCIATE/FULL PROFESSOR position in the nontenure Clinician-Educator or tenure track. Rank will be commensurate with experience. The successful applicant will have worked in the field of clinical chemistry. Applicants must have an M.D. and/or Ph.D. degree and have demonstrated excellent qualifications in education and research. For further details, please refer to our website: <http://www.uphs.upenn.edu/path/JobOpps.html>. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.



## POSITIONS OPEN

### ANIMAL PHYSIOLOGIST/ VERTEBRATE ZOOLOGIST

The Department of Biological Sciences at the University of Alabama in Huntsville invites applications for a **VISITING ASSISTANT PROFESSOR**. This is a one-year sabbatical replacement position set to begin in August 2002. A Ph.D. is required and teaching and/or postdoctoral experience is desirable. Since the applicant will provide instruction in the areas of animal physiology and vertebrate zoology, a strong background in whole organism biology is required. Both courses are upper-level undergraduate courses with a substantial enrollment by premedical students. Additionally, some first-year graduate students enroll in animal physiology. The animal physiology course is a general principle course emphasizing function and regulation of mammalian organ systems, while vertebrate zoology covers the morphology of the vertebrates and the phylogenetic significance of structural diversity. The Instructor is also responsible for conducting two three-hour laboratory meetings per week in each course. Collaborative research opportunities with departmental faculty may also be available. The Department has 13 faculty and awards 30 to 40 Bachelor's degrees and four to six Master's degrees annually. The Department also participates in an interdisciplinary Ph.D. program in biotechnology that was implemented last year. Please send a letter of application, curriculum vitae, transcripts, brief statements of research interests and teaching philosophy, and a list of three persons who may be contacted for references to: **Chair, Physiology and Vertebrate Zoology Search Committee, Department of Biological Sciences, 142 Wilson Hall, University of Alabama in Huntsville, Huntsville, AL 35899. E-mail: campbep@email.uah.edu.** Deadline for receipt of completed applications is April 22, 2002. *The University of Alabama in Huntsville is an Equal Opportunity Employer.*

**CELL BIOLOGIST/BIOCHEMIST** to explore functions of the ubiquitin proteolytic pathway in (1) regulation of cell division and proliferation or (2) response to oxidative stress (upon aging). **EPIDEMIOLOGIST** to (1) interpret a large body of collected nutrition and vision project data regarding nutrient intake and age-related eye disorders and (2) plan future studies regarding correlations between nutrient intake and risk for age-related cataract or age-related maculopathy. Publications are guaranteed.

Requirements are Ph.D., two English language publications, and an ability to communicate in English. Level of appointment is **ASSISTANT PROFESSOR to POSTDOCTORAL**; can be commensurate with experience. See our website: [http://www.tcvr.org/taylor\\_minisite/Index.htm](http://www.tcvr.org/taylor_minisite/Index.htm) for information. Send résumé, transcript of graduate courses and grades, and two articles to: **Allen Taylor, Tufts University, HNRC, 711 Washington Street, Boston, MA 02111. E-mail: ataylor@hnrc.tufts.edu.**

### BIOCHEMISTRY FACULTY POSITION

The Biochemistry and Nutrition Department of Des Moines University has a tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. The successful individual must demonstrate the potential to become an excellent medical educator. Teaching responsibilities include courses for osteopathic, podiatric, and physician assistant students. In addition, it is expected that the individual develop an extramurally funded research program. Start-up funds are available. An application including a concise statement of teaching philosophy and research interests; curriculum vitae; and the names of three professional references must be received by May 1, 2002, to receive full consideration. Direct all materials to: **The Biochemistry Faculty Search, Department of Biochemistry and Nutrition, Des Moines University—Osteopathic Medical Center, 3200 Grand Avenue, Des Moines, IA 50312. DMU is an Equal Opportunity Employer.**

## POSITIONS OPEN



The University of Kansas Medical Center is seeking to recruit faculty for the newly constructed Hoglund Brain Imaging Center. This freestanding research facility, opening in the fall of 2002, will be equipped with a 3 Tesla Siemens head dedicated system, a 9.4 310mm bore Varian system for animal imaging, and a CTF 144 probe magnetoencephalography (MEG) head system with a custom designed fetal MEG system. Opportunity is available for a **DIRECTOR** with extensive research experience in brain imaging using either MR or MEG technologies or both. The successful candidate will be an established and productive scientific investigator possessing well-developed administrative skills and capable of building and sustaining a team of diverse research talent focused on brain imaging. The candidate will possess credentials for appointment at the **PROFESSOR** level.

The Hoglund Center also seeks to appoint three additional faculty at an **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level (depending on experience) to head and run the human MR laboratory, the animal MR laboratory, and the adult MEG laboratory. Successful candidates will be productive investigators with experience in developing advanced brain imaging methods and in using imaging technologies to address questions of brain physiology or disease.

Applicants for all four positions should include a statement of research interests, a career synopsis, current curriculum vitae, and names and addresses of three references. Applications will be considered until all positions are filled. Nominations are strongly encouraged. These documents should be sent to:

**K.M.A. Welch, M.D.,  
Vice Chancellor for Research  
University of Kansas Medical Center  
Research Administration  
3901 Rainbow Boulevard  
6001 Wescoe  
Kansas City, KS 66160-7702**

### VIROLOGY

**The University of British Columbia**

Applications are invited for an **ASSISTANT PROFESSOR** tenure-track position in virology in the Department of Microbiology and Immunology. The Department is particularly interested in applicants whose research area involves pediatric virology, but applicants in all other areas of animal virology are encouraged to apply.

The successful applicant will need to have had adequate postdoctoral research experience and will be required to establish an active, externally funded research program and teach at both the undergraduate and graduate 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 including a one-page summary of previous research accomplishments and a one-page summary of research plans for 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.**

The deadline for applications is May 31, 2002.

*The University of British Columbia hires on the basis of merit and is committed to Employment Equity. We encourage all qualified persons to apply; however, Canadians and permanent residents of Canada will be given priority. 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. The position is subject to final budgetary approval.*

## POSITIONS OPEN

### TENURE-TRACK POSITIONS GENETIC MEDICINE Cornell University Weill Medical College

As part of a significant enhancement of its basic biomedical science research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is undertaking a major program initiative in the area of genetic medicine and is seeking to recruit tenure-track faculty at all levels to its new Department of Cell and Developmental Biology. We are especially interested in candidates with a focus on identification and characterization of genes regulating tissue differentiation and development, matrix function and remodeling, and cell cycle control and apoptosis. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential to establish a vigorous, independent research program. Candidates for senior positions should have an outstanding publication record as well as substantial recent success in obtaining peer-reviewed grant support. Appointment of these independent, tenure-track faculty is anticipated in the Department of Cell and Developmental Biology, directed by **Katherine A. Hajjar, M.D.**

Recruited faculty will receive generous start-up support and will occupy newly constructed laboratories. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D.-Ph.D. program, which also includes faculty from The Rockefeller University.

Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: **Jennifer J. Cameron, Genetic Medicine Recruitment Committee (KH), Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.**

*Equal Employment Opportunity/Affirmative Action/Minority/Female/Disabled/Veteran.*

### SENIOR LECTURER AND LABORATORY DIRECTOR Dartmouth College

The Department of Chemistry at Dartmouth College seeks applicants for the position of Senior Lecturer and Director of the General Chemistry Laboratories. This is a nine-month position starting September 2002 with an initial two-year appointment subject to renewal. Duties will include overall responsibility for the instructional laboratories in general chemistry; teaching in regular general chemistry lecture courses; training, supervising, and evaluating teaching assistants; and collaboration with other faculty in development of new laboratory curricula, and teaching materials. Requirements include a Ph.D. degree in chemistry and at least two years of relevant experience plus excellent interpersonal skills and a familiarity with modern instrumentation and contemporary methods of instruction. Send a résumé and arrange to have three letters of reference sent to: **Professor Dean E. Wilcox, Chair, Department of Chemistry, 102 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564.** Review of applications will begin April 15, 2002, and will continue until the position is filled. *With an even distribution of male and female students and over a quarter of the undergraduate student population members of minority groups, Dartmouth is committed to diversity and encourages applications from women and minorities. Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

**VIRAL IMMUNOLOGIST.** At least 10 years of experience in virus-induced demyelinating disease and T cell regulation. Tenure track. Independent funding. Send curriculum vitae and references to: **Leslie Weiner, University of California Keck School of Medicine, 1975 Zonal Avenue, KAM410, Los Angeles, CA 90033. Equal Opportunity Employer/Affirmative Action.**



**Principal Investigator  
Dermatology Branch, Center for Cancer  
Research (CCR)  
National Cancer Institute**

The Dermatology Branch CCR, NCI seeks an energetic and accomplished, tenure track or tenure eligible Principal Investigator to join a group of colleagues who are committed to excellence in research, training and patient care. The group is currently comprised of seven physicians who are engaged in laboratory- and clinic-based research. The successful candidate will establish an independent laboratory that conducts high quality research in an important area of contemporary skin biology. It is anticipated that the area of emphasis will complement those that are already represented in the Branch and be relevant to the diagnosis or care of patients with cancer. Candidates must be Board-certified in Dermatology, hold a valid state medical license and be eligible for NIH Clinical Center privileges. Ideal candidates will, in addition, have a commitment to, and active interest in, clinical medicine and must be willing to contribute to the development of a Branch clinical research program. Research activities will be fully supported. Compensation and other resources are negotiable and dependent on qualifications. Loan repayment programs may be available for qualified applicants. Applicants should send a letter of interest and curriculum vitae to: **Dr. Lee Helman, Chair, Dermatology Branch Principal Investigator Search Committee, c/o Ms. Sallie Baird, Dermatology Branch, CCR, NCI, Building 10, Room 12N238, Bethesda, MD 20892-1908.** Applications must be postmarked by May 30, 2002.

*The National Cancer Institute is an  
Equal Opportunity Employer.*

*GPC Biotech is a transatlantic biotech company with research facilities in Munich and Waltham. We are committed to finding pharmaceutical solutions using our genomics and proteomics platforms to accelerate and optimize our drug discovery programs, as well as those of our pharmaceutical partners.*

## **Cell/Molecular Biologists**

We are seeking Ph.D. level scientists to develop novel cell-based assays for the isolation of extracellular ligands. An ideal candidate will be proficient in molecular biology techniques and will have broad knowledge of mammalian cell biology. Experience with cellular and *in vivo* disease models is a plus. The successful candidate will be expected to work both independently and as part of a team. Minimum of 3 years postdoctoral experience required.  
**Job Code: CBLM**

GPC Biotech Inc. offers competitive salaries, benefits and a chance to work in an exciting scientific environment. Please send your resume to: Human Resources, GPC Biotech Inc., 610 Lincoln St., Waltham, MA 02451.  
Fax: 781-890-9005; Email: [hr.waltham@gpc-biotech.com](mailto:hr.waltham@gpc-biotech.com)



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### **ASSOCIATE SCIENTIST – CNS Job Code: DIA-4079**

The Cell Biology Department of the CNS Division at Aventis Pharmaceuticals in Bridgewater, NJ has openings at the Ph.D. and BS/MS levels for scientists with expertise in neural development, cell culture, and assay development. These individuals will be engaged in the development and application of cell based assays to study neural regeneration evaluating both phenotype and function. Selected positions will involve methods development research along with project team leadership responsibilities.

**BS/MS:** The use of cell biology and molecular approaches to study mechanisms underlying cellular differentiation and neural regeneration in the mammalian nervous system. Qualified candidates will have a BS/MS and knowledge of CNS development and pathogenesis of chronic neurodegenerative diseases. Knowledge of basic pharmacology is desired. Applicants should have at least 2 years experience culturing rodent and/or human neural cells and developing and utilizing cell assays including viability, proliferation, and migration. General molecular biology skills, including the design and transfer of molecular constructs into neural cells, are essential.

**Ph.D:** Areas of research include cellular and molecular biology of stem and progenitor cells, neurodevelopment, and neural regeneration. Successful candidate has a Ph.D. in the Neurosciences and at least 2 years postdoctoral experience, is knowledgeable in the field of CNS development and pathogenesis (MS, Alzheimer's disease, stroke, etc.). Pharmaceutical experience is a plus. Candidate will develop and utilize mammalian cell culture models and help design animal models to examine the physiological role that specific genes play in CNS development and neurodegenerative disease. Experience in the design and transfer of molecular constructs to express genes in neural cells and experience in cell culture of neurons and/or oligodendrocytes is essential.

Become part of the most exciting growth company in the pharmaceutical industry. We reward our associates with exceptional benefits including medical/dental, retirement plans, holiday/floating holidays, work/life benefits and the opportunity to learn and grow.

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

**(please include job code when applying)**

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## POSITIONS OPEN

The Neuroscience Program at Michigan State University will expand by hiring three tenure-track **ASSISTANT PROFESSORS** investigating neural plasticity in a wide range of fields including but not restricted to neurogenesis, apoptosis, olfaction, neuroprotection, aging, or neurodegenerative disease. We are particularly interested in candidates who study neural processes at the molecular level of analysis and whose research program integrates molecular events into an understanding of neural systems. New faculty will have the opportunity to interact with strong research programs in autonomic regulation, neural development, neuroendocrinology, and neurotoxicology. The Michigan Life Sciences Corridor Research Initiative provides unique opportunities for support. Candidates will be expected to develop an extramurally funded research program and to teach in the Neuroscience Program and home department. Departmental affiliation will be appropriate to the expertise/interests of the appointee. Information about the Neuroscience Program and links to relevant departments can be found at [website: http://www.ns.msu.edu/neurosci/](http://www.ns.msu.edu/neurosci/). Applicants should submit a letter describing research and teaching interests, curriculum vitae, and representative publications. Applicants should have at least three letters of recommendation sent directly to: **Marc Breedlove, Search Committee Chair, Neuroscience Program, Michigan State University, East Lansing, MI 48824**. Application materials must be received by May 15, 2002, to ensure consideration. *MSU is an Affirmative Action/Equal Opportunity Institution. Persons with disabilities have the right to request and receive reasonable accommodation. Applications from women and minorities are encouraged.*

### CONSERVATION BIOLOGIST/ TERRESTRIAL ECOLOGISTS ASSISTANT PROFESSOR Biology, Fall 2002, Tenure Track

Responsibilities: Participation in upper-level courses related to ecology and conservation biology, introductory biology courses, and supervision of secondary education student teachers. Effective teaching and student advising are primary expectations as well as establishment of a research program that will include participation of undergraduates and Master's-level students. Required qualifications: Ph.D. in an area of biology. Preferred qualifications: We are particularly interested in individuals who will contribute in the areas of conservation biology or terrestrial landscape or ecosystem ecology. An equivalent combination of credentials and/or experience may also be considered. Please send letter of application; statements of teaching and research goals; and résumé with names, addresses, and telephone numbers of three references to: **Dr. Ruth Rollin, Chairperson, Department of Biological Sciences, Central Connecticut State University, New Britain, CT 06050-4010**. Review of candidates will begin on April 15, 2002.

*Central Connecticut State University aggressively pursues a program of Equal Employment and Educational Opportunity and Affirmative Action. Members of all underrepresented groups, women, veterans, and persons with disabilities are invited and encouraged to apply.*

### OPHTHALMOLOGY AND VISUAL SCIENCE

University of Texas Medical School at Houston

Applications are invited for one or two tenure-track faculty positions, probably at the **ASSISTANT PROFESSOR** level, to join a team working on the organization of the mammalian retina. We seek candidates holding or with strong potential to obtain funding from the National Eye Institute and with novel physiological, molecular, or genetic approaches to the structure and function of the retina. A competitive salary start-up package will be provided. Send applications with curriculum vitae; research outline; and the names of three references by March 31, 2002, to: **Dr. Stephen C. Massey, Research Director, Ophthalmology and Visual Science, University of Texas Medical School at Houston, 6431 Fannin, Suite 7.024, Houston TX 77030**. E-mail: [steve.massey@uth.tmc.edu](mailto:steve.massey@uth.tmc.edu). *The University of Texas is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### INVERTEBRATE BIOLOGIST

The Department of Biology at the University of Arkansas at Little Rock invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin fall 2002. We seek a broadly trained individual who studies invertebrate biology, species complexes, or host/parasite systems. The successful candidate will join an active and growing department and is expected to develop a vigorous, externally funded research program involving graduate and undergraduate students. Teaching responsibilities include courses in organismal invertebrate zoology such as entomology, nematology, or parasitology; graduate courses in the candidate's area of expertise; and participation in the Department's undergraduate core curriculum. Competitive applicants will have a Ph.D. degree, a strong record of research productivity, and will complement departmental strengths.

The University of Arkansas at Little Rock ([website: http://www.ualr.edu/~biology](http://www.ualr.edu/~biology)) is a metropolitan, state-supported university with a current enrollment of over 11,000 students. Housed within the College of Science and Mathematics, the Department of Biology consists of 17 full-time faculty and over 350 majors in its various degree programs. The Department offers B.S. degrees in biology with three concentrations (general biology, fisheries and wildlife management, and molecular biotechnology) and environmental health sciences (four options). The Department has an M.S. program in biology and participates in the University's existing Ph.D. program in applied sciences. Review of applications will begin immediately and continue until the position is filled. Send a letter of application, curriculum vitae, brief statements of teaching and research interests, copies of graduate and undergraduate transcripts, and three letters of reference to: **Dr. Gary A. Heidt, Chair, Department of Biology, University of Arkansas-Little Rock, 2801 South University Avenue, Little Rock, AR 72204**. *The University of Arkansas-Little Rock is an Equal Opportunity/Affirmative Action Employer. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.*

### CHAIRPERSON Department of Biochemistry and Molecular Biology

The University of Kansas School of Medicine is searching for an outstanding Scientist and leader to chair the Department of Biochemistry and Molecular Biology. Candidates must have a vibrant research program, preferably with an emphasis on protein structure/function and use of biochemical approaches to address biological function and regulation; strong leadership abilities; and a commitment to graduate and medical education. The new Chair will be expected to continue to foster interactions with other departments in the Medical School, which has an unusually open and collaborative environment, and participate in forging research partnerships with other institutions in the Kansas City area. Substantial laboratory space and resources are available for this important position including numerous new faculty positions with highly competitive recruitment packages. Nominations are invited. Applicants should forward their curriculum vitae, a brief statement regarding research and academic leadership goals, and contact information for three references to:

**Ms. Jo Halverson  
Special Assistant to the Executive Dean  
3015 Murphy Administration Building  
University of Kansas School of Medicine  
3901 Rainbow Boulevard  
Kansas City, KS 66160-7300  
E-mail: [jhalvers@kumc.edu](mailto:jhalvers@kumc.edu)**

Information about the University can be obtained electronically through access to its [website: http://www.kumc.edu](http://www.kumc.edu).

The review of applications will begin immediately upon receipt and continue until the position is filled.

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

## POSITIONS OPEN

### VISITING ASSISTANT PROFESSORS

The Department of Biology at West Virginia University invites applications for two one-year Visiting Assistant Professor positions to begin August 16, 2002. Qualified applicants are sought in the general areas of organismal biology and molecular biology. The successful candidates will teach three courses per semester (or two if one is a laboratory course) in our undergraduate curriculum. For the organismal biology position, these courses will include animal behavior, general biology, and upper-division elective courses in the candidate's area of expertise. For the molecular biology position, these courses will include virology, general biology, and other upper-division courses in the candidate's area of expertise. Candidates who have completed their Ph.D. will receive preference, although the Search Committees will consider candidates who are near completion of their program. Biology is one of the largest departments at WVU. WVU is a comprehensive, research university located in Morgantown, West Virginia, a city recently selected as the Best Small City in America by *Bizjournal.com*. Also located in Morgantown, West Virginia, are the Mary Babb Randolph Cancer Center, NIOSH, and Mylan Pharmaceuticals. To apply, please send curriculum vitae; statement of teaching interests, capabilities, and philosophy; and the names and contact information of three references to: **Dr. James McGraw, Organismal Biology Search Chairperson or Dr. Ramsey Frist, Molecular Biology Search Chairperson, Department of Biology, P.O. Box 6057, West Virginia University, Morgantown, WV 26506-6057**. Inquiries may be directed to: **Mark R. Walbridge, Chair, Department of Biology; Telephone: 304-293-5201**. Additional information about the Biology Department may be found at [website: http://www.as.wvu.edu/biology](http://www.as.wvu.edu/biology). Review of applications will begin April 15, 2002. *West Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women, minorities, and the disabled are strongly encouraged.*

Okanagan University College is a comprehensive, multicampus institution delivering postsecondary education and training to the population in British Columbia's Southern Interior. With 7,000 full- and part-time students enrolled in vocational, developmental, applied and academic programs, OUC is focused on developing new and more responsive answers to the learning needs of an evolving society and economy.

OUC is currently seeking applications and nominations for the following position(s):

### TIER II CANADA RESEARCH CHAIR Conservation Biology/Species at Risk Faculty of Science, Kelowna Centre Competition Number 14FAC02

The Okanagan region offers the only available Canadian refuge for 30 of the 326 species listed as at risk (9.2%). A CRC in conservation biology will complement research being undertaken by our active environmental research group including two existing FRBC Endowed Research Chairs.

Full details on these and other positions currently open at Okanagan University College may be viewed on our [website: http://www.ouc.bc.ca/jobpostings](http://www.ouc.bc.ca/jobpostings)

*Okanagan University College wishes to thank all applicants for their interest. Only those applicants selected for further consideration will be contacted. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and landed immigrants (permanent residents) of Canada.*

**CHAIR**, Department of Entomology, University of Kentucky: Administers; provides leadership; and coordinates and fosters excellence in extension, education, and research. A Ph.D. degree in entomology or closely related discipline and an understanding of the land grant university mission is required. Review of applications begins May 31, 2002. See [website: http://www.uky.edu/Agriculture/Entomology](http://www.uky.edu/Agriculture/Entomology) for application information.



# 2002 Cancer Research UK Senior Cancer Research Fellowship

The Cancer Research Campaign and Imperial Cancer Research Fund are now working together as Cancer Research UK, combining our complementary strengths to cure cancer faster through world class research. Cancer Research UK is the leading supporter of cancer research in British universities and medical schools, with a dedicated team of 3,000 scientists and clinicians around the country and an annual scientific spend of £130 million. Our world class research is based on a strong belief in the importance of the interface between research and clinical therapy, taking discoveries from bench to bedside so that we can make a real difference to the lives of those touched by cancer. To achieve this, we support a broad portfolio of research drawn from a wide variety of scientific disciplines and are committed to developing the next generation of leaders in cancer research through a co-ordinated programme of basic and applied medical research fellowships.

Cancer Research UK is pleased to invite preliminary applications for its Senior Cancer Research Fellowships. The aim of this Fellowship scheme is to support outstanding young investigators who have shown special promise in their initial studies in a cancer relevant research field and to provide them with an opportunity to establish an independent research group. This Fellowship is tenable in any Cancer Research UK funded research institute, department or research group. Applications to work in non-Cancer Research UK funded laboratories will be considered, but if this is intended Cancer Research UK should be consulted before the application is made.

Candidates should have a PhD, at least 3 years' postdoctoral experience and should not normally be over 35 years of age. However, equal consideration will be given to those over this age where their career has been affected either by a late start, or by interruption for personal or

family reasons. Applicants should not currently hold a tenured position at the proposed host institution.

This Fellowship will be tenable for six years in the first instance and will be potentially renewable through the Cancer Research UK Programme grant application process for a further five years. The potential also exists for negotiations with the host institution to secure a tenured appointment. The Fellowship provides an appropriate salary at a suitable level (not less than £36,000), funding for a postdoctoral worker and research assistant, consumable costs and a set-up equipment grant in the first year.

Cancer Research UK hopes to appoint four Senior Cancer Research Fellows to commence in January 2003.

Applicants are invited to submit a two page preliminary proposal outlining their proposed programme of research, an indication of the likely host institution should be included, plus a full CV. Successful applicants will then be invited to submit a full application.

For further information or submission of preliminary application, please contact Dr Lynn Turner, Grants Administration, Cancer Research UK, PO Box 123, 61 Lincoln's Inn Fields, London WC2A 3PX. Tel: 020 7317 5178. Fax: 020 7487 4302. Email: [lynn.turner@cancer.org.uk](mailto:lynn.turner@cancer.org.uk)

Closing date for applications: Friday 4th May 2002.

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

A culture of diversity. A focus on success.

CANCER RESEARCH UK



Charity no: 1089464



UNIVERSITY OF  
OXFORD

## Directorship of the Oxford University Museum of Natural History

The electors intend to proceed to an election to the Directorship of the Oxford University Museum of Natural History with effect from 1st October 2003 in succession to Professor Keith S Thomson, who retires on 30th September 2003.

A non-stipendiary fellowship at Kellogg College is attached to the directorship.

**Applications (ten copies, or one only from overseas candidates), naming three persons (with postal and e-mail addresses and telephone/fax numbers) who have agreed to act as referees on this occasion, should be submitted not later than 6th May 2002 to the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, from whom further particulars may be obtained. Further particulars may also be accessed at <http://www.admin.ox.ac.uk/fp>**

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## POSITIONS OPEN

### DIRECTOR NEUROONCOLOGY PROGRAM

The Children's Cancer Research Center (CCRC) of the University of Texas Health Science Center at San Antonio (UTHSCSA) in collaboration with the Department of Pediatrics is seeking an academic Pediatric Neurologist at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level to lead a research program in neurooncology. CCRC is especially interested in candidates capable of directing research programs aimed at assessment, prevention, and recovery of function after exposure of the developing brain to therapeutic radiation, chemotherapy, and/or surgery. The ideal candidate should be Board certified in pediatrics and child neurology and have demonstrated research expertise (including extramural research funding) in areas such as functional brain mapping, CNS gene therapy, or neural stem cells. CCRC is funded by a \$200 million endowment from the State of Texas tobacco settlement and support commensurate with the planned scope of activities, including the recruitment of junior-level Scientists, is readily available. CCRC will occupy a newly constructed, state-of-the-art laboratory building in 2003-2004.

Individuals with relevant experience and qualifications should send a cover letter, curriculum vitae, and names of three references to:

**Anthony J. Infante, M.D., Ph.D.**  
Interim Director, Children's Cancer  
Research Center

The University of Texas Health Science Center  
at San Antonio  
Mail Code 7810  
7703 Floyd Curl Drive  
San Antonio, TX 78229-3900

UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.

### CHEMIST STAFF SCIENTIST Two-Year Term Appointment

The Berkeley Laboratory's Chemical Sciences Division is seeking a Chemist Staff Scientist to manage the Heavy Element Research Laboratory (HERL) of the Glenn T. Seaborg Center (GTSC). The HERL Manager will have responsibility for the day-to-day operations, safety, and technical and research development of the facility and will perform independent research with the Principal Investigators of the GTSC. The incumbent will also have the opportunity to develop and maintain a fundamental program on actinide chemistry.

The successful candidate will have a substantial background and experience in general nuclear chemistry, chemistry of the actinide, and/or transactinide elements. Excellent interpersonal and communication skills are also required. Ph.D. in chemistry or equivalent experience preferred. This is a two-year term appointment with the possibility of conversion to career.

Further details about this position can be found at website: <http://cjo.lbl.gov> (Requisition Number 014388). Submit a letter of interest and curriculum vitae to: **Job Number CH/014388/JS, Lawrence Berkeley National Laboratory, MS 937-600, 1 Cyclotron Road, Berkeley, CA 94720. E-mail: chememployment@lbl.gov; FAX: 510-486-5870.** Open until filled. Berkeley Laboratory is an Affirmative Action/Equal Opportunity Employer committed to the development of a diverse workforce.

**RESEARCH ASSOCIATE** position available to work on the genetic and biochemical analyses of proteins involved in transcription and RNA processing in the *Archaea*. Candidate will also participate in grant preparation and supervision of graduate students. M.S. in microbiology with two years of relevant experience required; Ph.D. with experience in *Archaea* preferred. Experience in chemostat growth studies also desirable. Send curriculum vitae and the names of three references to: **Dr. Chuck Daniels, Department of Microbiology, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210.**

## POSITIONS OPEN

### ASSOCIATE PROFESSOR

The Department of Grain Science and Industry, Kansas State University, Manhattan, Kansas, is accepting applications for a tenure-track, 12-month position in the area of grain carbohydrates. The Department offers undergraduate/graduate degree programs in flour milling, baking, and food manufacturing professions as well as programs in grain storage and processing. The Department is a member of the Food Science Institute on campus.

The incumbent will be responsible for teaching of undergraduate and graduate courses related to grain carbohydrates; leading a research program and collaborating with other Scientists to enhance the value of grains; and pursuing leadership in the professions that encompass carbohydrates and grains.

A Ph.D. in biochemistry, chemistry, biology, or related field is required. Candidates should have an established record of research shown by publications and continued external funding and a commitment to teaching. Academic or postdoctoral experience, knowledge and experience with carbohydrates, and teaching experience are preferred.

The deadline for applications is May 15, 2002. A letter of application, curriculum vitae, transcripts, statement of academic and teaching philosophy with research interests and plans, and list that includes telephone numbers and e-mail addresses for three references should be addressed to: **P. A. Seib, Chair, Grain Carbohydrates, Kansas State University, Department of Grain Science and Industry, 201 Shellenberger Hall, Manhattan, KS 66506-2201.** For more complete information on our department and this position, see our website: [http://www.oznet.ksu.edu/dp\\_grsi/](http://www.oznet.ksu.edu/dp_grsi/).

Screening of applications will continue until position is filled.

Kansas State University is an Equal Employment Opportunity/Affirmative Action Employer. KSU encourages diversity among its employees.

### FACULTY POSITION DEPARTMENT OF RADIOLOGY Massachusetts General Hospital and Harvard University Medical School

Applications are invited for one faculty position to begin on or after June 1, 2002. We seek individuals who have demonstrated excellence in the areas of systems neuroscience and molecular genetics. Examples of preferred research emphasis include molecular (cell and molecular) neurobiology, electrophysiology, genetics of psychiatric illness, analysis of complex traits, and neurochemistry of addiction along with facility with neuroimaging such as functional magnetic resonance imaging in humans. Preference will be given to applicants at the **ASSISTANT PROFESSOR** level, although outstanding individuals at the **ASSOCIATE PROFESSOR** level will be considered. Applicants must have a Ph.D. or M.D.-Ph.D. or M.D. and postdoctoral research experience. Successful applicants are expected to establish an independent, extramurally funded research program and to participate in the education of graduate, postgraduate, and medical students. Applicants should send curriculum vitae, a synopsis of research plans, and names and addresses of three individuals who will provide letters of reference to: **Chair, Search Committee, Department of Radiology, MGH-NMR Center, Second Floor, 149 13th Street, Charlestown, MA 02129.**

A **RESEARCH MOLECULAR BIOLOGIST** position is available in Princeton University's Department of Molecular Biology to study the cellular and circuit mechanisms of short-term memory in the vertebrate brain. Ph.D. required. Applicants should send curriculum vitae, references, and a brief description of research interests to: **Lynn Egluff, Princeton University, Department of Molecular Biology, Lewis Thomas Laboratory, Princeton, NJ 08544. FAX: 609-258-3980.**

Princeton University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITIONS Biochemistry and Molecular Biology

The Department of Biochemistry and Molecular Biology at the Uniformed Services University of the Health Sciences is looking for outstanding candidates for tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. This appointment is part of a continuing expansion of the Department. Candidates working in all areas of biochemistry, genetics, molecular biology, or cell biology will be considered. Applications are particularly encouraged from individuals using genetic and molecular approaches to study cell growth or differentiation, mechanisms of signal transduction, regulation of gene expression, protein structure/function, control of the cell cycle, and apoptosis. Excellent research facilities and start-up funds are available. Requirements include a Ph.D. or M.D. with postdoctoral experience and demonstrated research accomplishments. The successful candidate will be expected to establish a vigorous, externally funded research program and participate in the teaching of medical and graduate students. Candidates at the Associate Professor level should have current grant support. Applicants should submit curriculum vitae; a one-page statement of future research plans; reprints of three to five recent publications; and the names and addresses of three references by April 19, 2002, to:

**Search Committee  
Department of Biochemistry and  
Molecular Biology  
Uniformed Services University  
of the Health Sciences  
4301 Jones Bridge Road  
Bethesda, MD 20814-4799**

USUHS is an Equal Opportunity Employer.

### ACADEMIC POSITIONS Chemistry and Chemical Biology

The Department of Chemistry and Chemical Biology, Stevens Institute of Technology, is seeking to fill one or more tenure-track positions, rank dependent on qualifications, in the fields of (1) cell or molecular biology and (2) synthetic organic chemistry. Ph.D. and postdoctoral experience required; teaching and previous grant experience an asset. Successful candidates will be expected to develop strong funded research programs and to excel in teaching at undergraduate and graduate levels. Stevens is committed to the concept of Technogenesis®, i.e., engendering innovative science and technology; therefore, collaborative as well as independent research will be expected. The Department is equipped with first-rate mass spectrometry and NMR facilities and competent, industrious students. Send letter and curriculum vitae with names of references to: **Faculty Search, Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Castle Point-on-the-Hudson, Hoboken, NJ 07030.** Stevens Institute is an Equal Employment Opportunity/Affirmative Action Employer.

The Division of Neonatal-Perinatal Medicine, Department of Pediatrics, at the Emory University School of Medicine is seeking an individual to study pathobiology and mechanisms of injury to the developing brain. Both human and animal models will be used to examine physiological mechanisms at the whole animal, whole organ, and cellular/molecular level. Candidates should have a Ph.D. degree (preferably with five or more years of experience in neuronal models) as well as grant writing experience. Candidates employing innovative approaches to cerebrovascular biology or ischemic cascade/neuroprotection are encouraged to apply. Interested individuals should submit complete curriculum vitae, a brief description of research interests, and the names and addresses (including e-mail and telephone numbers) of three references to: **Augusto Sola, M.D., Department of Pediatrics, Emory University School of Medicine, 2040 Ridgewood Drive, N.E., Atlanta, GA 30322. FAX: 404-727-3236; e-mail: asola2@emory.edu.** Review of applications will begin immediately and will continue until the position is filled. Affirmative Action/Equal Opportunity Employer.



**NATIONAL CENTER FOR COMPLEMENTARY & ALTERNATIVE MEDICINE  
NATIONAL INSTITUTES OF HEALTH**

**DEPUTY DIRECTOR**

The National Center for Complementary and Alternative Medicine (NCCAM) is seeking an exceptional senior scientist to serve as Deputy Director. NCCAM is dedicated to exploring complementary and alternative medicine healing practices in the context of rigorous science, educating and training complementary and alternative medicine (CAM) researchers, and disseminating authoritative information to the public and professionals. The Deputy will represent the Center nationally and internationally in matters relating to all of its activities and interests, and help formulate, guide and personally oversee the management of all NCCAM-funded extramural centers, investigator-initiated research, research contracts, fellowship, training and career awards, totaling over \$86 million in investments this year.

The ideal candidate must have a doctoral degree or equivalent in health related sciences and a strong record of original research in the biomedical and/or behavioral and social sciences, research management and science administration in a discipline relevant to, if not directly involving CAM. Personal knowledge and experience with NIH funding mechanisms and processes is highly desirable. Total salary is competitive and will be commensurate with the qualifications and experience of the successful candidate. Applicants must be a U.S. Citizen, resident alien, or nonresident alien with a valid employment visa. Go to <http://nccam.nih.gov/nccam/an/employment> to see the full announcement and information on how to apply for this challenging position. Please submit a letter of intent, current curriculum vitae and the names, addresses and telephone numbers of three professional references to the attention of Dr. Lawrence Tabak, c/o NCCAM, NIH; Building 31, Room 2B11; 31 Center Drive, MSC 2182; Bethesda, MD 20892-2182.

**APPLICATIONS MUST BE POSTMARKED BY MAY 15, 2002**

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**DEAN, COLLEGE OF MEDICINE  
THE UNIVERSITY OF IOWA**

The University of Iowa seeks candidates for the position of Dean of the College of Medicine. Responsibilities of the Dean include faculty recruitment and appointments; educational, clinical and research programs; admission and placement of students; student affairs; fiscal planning and management; short term and strategic planning; space and equipment utilization; philanthropic outreach and other activities that affect educational, research, and professional service within the College. The Dean reports to the Vice President for Statewide Health Services, is spokesperson for the faculty of the College, and represents the College in interactions with practitioners throughout the state. The Dean reports to the Provost for academic evaluation of faculty appointments, promotion and tenure decisions.

The College of Medicine is consistently among the top ten public medical schools in National Institutes of Health funding and is part of a major research university. The working relationship between the College of Medicine and the University of Iowa Hospitals and Clinics is uniquely successful and is described as University of Iowa Health Care. The two entities work cooperatively in partnership to fulfill their complementary missions of teaching, patient care and research. The College is part of a vibrant Health Sciences campus that includes colleges of Pharmacy, Nursing, Dentistry and Public Health. The Dean must be able to effectively interact with and be willing to cooperate/collaborate with the other four health sciences colleges and their representatives. The College is also closely affiliated with an adjacent, comprehensive Department of Veterans Affairs Medical Center.

Candidates should possess an M.D., Ph.D., or both, have a distinguished record of teaching, research, and service in a medically related field and qualify for senior academic rank in the College of Medicine. The successful candidate must have a demonstrated capacity to foster an environment in which excellent teaching and scholarship can flourish. The University of Iowa College of Medicine has a history of excellence in basic and patient-oriented biomedical research, delivery of tertiary medical care as well as the development and promotion of clinical programs in a state which relies heavily on rural, primary care physicians.

The Search Committee seeks candidates who have a record of innovative and effective administrative leadership; possess strong advocacy skills; expect and enjoy interaction with students; and who have a commitment to increasing diversity among students, staff and faculty. A demonstrated knowledge of fiscal management within the complex, changing health care field is essential. A record of productive interaction with representatives of business and industry, community and state leaders, legislators, and officials at all governmental levels is highly desirable.

The Search Committee will accept nominations and applications until the position is filled. The Committee is particularly interested in identifying minority and women candidates. Applications should include curriculum vitae and the names, addresses, and telephone numbers of five references. Please send nominations or applications to:

**Dr. Francois Abboud  
Chair, Search Committee for the Dean, College of Medicine  
200 CMAB  
The University of Iowa  
Iowa City, IA 52242**

*The University of Iowa is an Equal Opportunity and Affirmative Action Employer.*

## POSITIONS OPEN

### EUKARYOTIC MOLECULAR GENETICIST

The Department of Genetics and Biochemistry at Clemson University invites applications for a tenure-track faculty appointment at the level of **ASSISTANT PROFESSOR**, although an Associate Professor-level appointment may be considered for exceptional applicants. We are seeking a Eukaryotic Molecular Geneticist working preferably with model animal or fungal systems to complement our current research strengths in plant and human genetics. Postdoctoral experience is required. The successful candidate will be expected to develop a competitive, extramurally funded research program; mentor M.S.- and Ph.D.-degree candidates in genetics and/or biochemistry; and contribute to teaching undergraduate- and graduate-level genetics courses. The Department of Genetics and Biochemistry is a newly formed department composed of five junior, four senior, and nine associated faculty. The successful candidate will be housed with other departmental faculty in the recently completed \$27 million Clemson Science and Technology Center equipped with state-of-the-art laboratories and genomics facilities. To apply, submit a letter of application, curriculum vitae, short statements of research and teaching interests, and at least three letters of recommendation. Address application materials to: **Chairman, EMG Search Committee, 122 Long Hall, Clemson University, Clemson, SC 29634-0324. E-mail: sheryl@clcmson.edu**; include EMG Search 2002 on the subject line. Attachments should be Word documents. Screening of applications will begin immediately and all complete applications received prior to May 1, 2002, will receive full consideration. Information about the research interests of the faculty and departmental resources may be obtained at the Department's website: <http://www.clemson.edu/genbiochem/>. *Clemson University is an Equal Employment Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.*

### CYTOMETRIST (MANAGER, CELL AND FLOW CYTOMETRY FACILITY)

Office of Biotechnology  
Iowa State University

This individual will (1) manage the flow facility activities including overseeing operation and maintenance of instrumentation (Coulter Epics Altra and Epics-XL/MCL and a BDFACScan); (2) advise users relative to sample preparation, experimental design, and data interpretation; (3) have career development opportunities via collaborations on manuscripts and on funding proposals; and (4) promote the facility through educational activities including presentations of workshops, seminars, and course lectures. Required qualifications: Master's degree in cell biology, immunology, or related life science field; three years of experience directly relevant to flow cytometry. Preferred qualifications: Ph.D. in a related science, Experience with a multiuser environment. Management experience. Experience with plant, animal, and/or bacterial samples. Application deadline: March 21, 2002. Application instructions: Send letter of application, résumé, and the names of three references to:

**Dr. Michael Wannemuehler**  
Office of Biotechnology  
1210 Molecular Biology Building  
Iowa State University  
Ames, IA 50011-3260  
Telephone: 515-294-4779  
FAX: 515-294-4629  
E-mail: [tlpeters@iastate.edu](mailto:tlpeters@iastate.edu)

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

### RESEARCH ASSOCIATE III MOLECULAR BIOLOGIST Comparative Biomedical Sciences

See our website: <http://www.lsu.edu>. Submit materials to: **Dr. Dario Marchetti, Associate Professor**; Telephone: 225-578-9897; e-mail: [dmarchetti@vetmed.lsu.edu](mailto:dmarchetti@vetmed.lsu.edu). *LSU is an Equal Opportunity/Equal Access Employer.*

## POSITIONS OPEN



### DIRECTOR, SCHOOL OF MARINE PROGRAMS University of Georgia

The University of Georgia is seeking nominations and applications for Director of the School of Marine Programs, the largest and most comprehensive marine research, instructional, and outreach institution in the state. The Director serves as Head of the Department of Marine Sciences and carries the rank of **PROFESSOR** with tenure. The Director also has administrative oversight for the Marine Extension Service, whose faculty and extension agents focus on applied research, continuing education, and outreach to Georgia's citizens and marine industries; the Marine Institute on Sapelo Island, internationally known for its salt marsh and estuarine research; and the Georgia Sea Grant College Program, which funds a wide range of research, education, and outreach projects throughout Georgia. Candidates should have a strong background in marine academic program administration; demonstrated excellence in a field of marine research; and a clear commitment to superior instruction, outreach, and public service. To assure full consideration, provide current curriculum vitae; a brief statement of administration, instruction, research, and public service philosophy; and the names of four references by July 1, 2002. The target date for filling this position is as early as January 2003 and no later than August 2003. Submit nominations and applications to: **Director, Search Committee, School of Marine Programs, Marine Sciences Building, The University of Georgia, Athens, GA 30602.** *The University of Georgia is an Affirmative Action/Equal Employment Opportunity Institution. Women and members of underrepresented minorities are especially encouraged to apply.*

### FACULTY POSITION Cancer Biology

The School of Pharmacy at the Texas Tech University Health Science Center Amarillo campus invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Pharmaceutical Sciences. The Department has 24 full-time faculty positions with interests in brain/vascular, cancer, biotechnology, and pharmaceutical research. Applicants must have a Ph.D. and postdoctoral experience. Teaching responsibilities might be in pathophysiology/pharmacology components of the Pharm D. curriculum. Candidates interested in the cell biology of cancer are strongly encouraged to apply. Successful candidates are expected to develop a strong research program and mentor undergraduate and graduate students. Competitive start-up packages and space are available. Applicants should submit curriculum vitae, a summary of research and teaching interests, and names and addresses of three references to: **Dr. Margaret Weis, Texas Tech University School of Pharmacy, 1300 Coulter, Amarillo, TX 79106. E-mail: [margew@ama.ttuhsu.edu](mailto:margew@ama.ttuhsu.edu); FAX: 806-356-4034.**

*TTUHSC is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.*

The U.S. Department of Agriculture, APHIS, Foreign Animal Disease Diagnostic Laboratory on Plum Island, New York, is seeking a permanent full-time **MICROBIOLOGIST**, GS-12. Salary is \$57,568 to \$74,835 per year plus benefits. *Must be U.S. citizen.* Graduate degree in microbiology is required. Responsibilities include develop new or improve diagnostic tests for detection of foreign animal disease agents and provide training for laboratory technicians. Deadline for application is April 1, 2002. For further information, contact: **Dr. Samia Shawky**; Telephone: 631-323-3256; e-mail: [samia.a.shawky@usda.gov](mailto:samia.a.shawky@usda.gov).

*The Federal Government is an Equal Employment Opportunity Employer.*

## POSITIONS OPEN

### MOLECULAR MEDICINE/GENE THERAPY University of Texas

The Department of Basic Sciences, University of Texas Health Science Center at Houston, Dental Branch, invites applications for a full-time tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D., teaching expertise in molecular genetics, and a research interest in molecular medicine and/or gene therapy. Additional research interests in immunology, infectious diseases, or related areas are desirable but not mandatory. Candidates are expected to have or to quickly establish a funded research program. The Department of Basic Sciences is an interdisciplinary group of approximately 23 faculty members with a primary responsibility for instruction of dental students and residents in the biological sciences. The University of Texas Health Science Center at Houston is a primary component of the Texas Medical Center, one of the foremost health care and research centers in the country. Additional information is available at website: <http://www.db.uth.tmc.edu>.

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

**Dr. William Butler**  
Department of Basic Sciences  
The University of Texas Dental Branch  
6516 M.D. Anderson Boulevard, DBB 4.133  
Houston, TX 77030

The deadline for applications is August 15, 2002, or until the position is filled.

*The University of Texas, Houston Health Science Center, is an Equal Opportunity Employer and a nonsmoking environment. Women and minorities are encouraged to apply.*

### DEPARTMENT OF MEDICINE University of California San Francisco

The Department of Medicine at the University of California, San Francisco, is recruiting for a faculty position in the uro/oncology program in the Division of Medical Oncology.

Candidates must have demonstrated research interest and preferably experience in genitourinary cancer. The candidate will have an opportunity to work with an outstanding prostate cancer program and Prostate SPOR (Special Program of Research Excellence) at the UCSF Comprehensive Cancer Center. The appointment will be made at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the In Residence series. Candidates should have an M.D. degree and be ABIM certified or eligible in medical oncology.

Send curriculum vitae to: **Margaret Tempero, M.D., UCSF Box 1770, San Francisco, CA 94143-1770.** *UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

The Drug Discovery Department of Magellan Laboratories is searching for a **SCIENTIST**. Requirements are Ph.D. or M.S. in a bioscience (i.e., toxicology); Ph.D. level with zero to three years of postgraduate experience; M.S. level requires four to six years of relevant experience. *In vitro* toxicological and bioassay techniques. Hands-on electrophysiology experience preferred but not required.

Apply online at website: <http://www.magellanlabs.com>.

At Amersham Biosciences, we have the expertise and vision to help researchers in industry and academia turn the promise of molecular medicine into reality. We are always seeking talented professionals to help us realize our vision. Please send your résumé to: **Amersham Biosciences, Professional Staffing, 928 East Arques Avenue, Sunnyvale, CA 94085-4520. FAX: 408-773-8343; e-mail: [jobs.mdyn@am.abiotech.com](mailto:jobs.mdyn@am.abiotech.com).**

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## Vice President for Research

TIGR is seeking an exceptional candidate for the position of Vice President for Research. The incumbent will report to the President and will be expected to foster and sustain an environment that facilitates the highest quality scholarship and research by providing scientific and intellectual leadership in the areas of:

- faculty recruitment and professional development
- strategic planning and identification of new research and funding opportunities
- creation of partnerships and collaborations across multiple scientific disciplines and spanning academic/industry/government sectors
- management of technology transfer and licensing
- balancing funding opportunities and existing and planned resources to maximize TIGR's scientific potential

Our expanding research programs have positioned us as a world leader in the fields of microbial, parasite, plant, mammalian, functional genomics, and bioinformatics. TIGR has a faculty of 30 scientists, an annual research budget of \$40 million, and a total staff of 300 to support its research efforts. Construction of a new building on the TIGR campus is underway which will more than double the current space available for research and will provide extensive facilities for functional genomics.

A successful candidate will be a nationally and internationally respected leader in his or her respective field and must have research experience and/or knowledge of research programs in genomics, functional genomics, or bioinformatics. Candidates should have demonstrated leadership in developing and communicating a vision to engage our faculty, staff, and collaborative partners. An M.D. and/or Ph.D and extensive research experience are required.

We offer an excellent working environment and a competitive benefits package. Please submit a c.v. bibliography, salary requirements and statement of interest to: **TIGR, Attn: HR/1145, 9712 Medical Center Dr., Rockville, MD 20850** E-mail: [jobs@tigr.org](mailto:jobs@tigr.org) Fax: (301) 838-0257 EOE

*For more information about TIGR, visit our web site at [www.tigr.org](http://www.tigr.org)*



The scope of research at The Institute for Genomic Research (TIGR) includes the sequencing, functional, and comparative analysis of genomes and gene products in viruses, pathogenic and environmental bacteria, archaea, and numerous eukaryotes including pathogenic fungi and parasites, plants, and several mammalian species.

## Postdoctoral Opportunity National Institutes of Health

Postdoctoral positions are available for studies in cellular and molecular neuroscience focusing on the role of ligand/voltage-gated channels and second messenger systems in regulating dendritic signaling and plasticity in the hippocampus.

Experience in electrophysiology, optical imaging and/or genetic manipulation is desirable. Candidates must have a Ph.D. degree and less than 5 years postdoctoral experience. These positions are to begin Fall 2002. Interested applicants should submit curriculum vitae, bibliography, a statement of research interests, and three letters of reference before May 1, 2002 to:

**Dax Hoffman, Ph.D.**  
National Institutes of Health, NICHD  
Bldg. 49, Room 5A78  
49 Convent Drive MSC 4495  
Bethesda, MD 20892-4495  
(301) 402-4788; FAX (301) 402-4777  
or via e-mail: [dax@mpimf-heidelberg.mpg.de](mailto:dax@mpimf-heidelberg.mpg.de)

*NIH is an Equal Opportunity Employer*

## Post-doctoral Fellowship in National Heart, Lung and Blood Institute National Institutes of Health, USA

The Laboratory of Cardiac Energetics in the intramural program of the National Heart Lung and Blood Institute has post-doctoral positions involved in the evaluation of mitochondrial function and control in the intact cell. The candidate should have a Ph.D. in biochemistry, bioengineering, physiology, molecular biology, or related disciplines. The goal of these studies is a better understanding of the cytosolic events related to the control of mitochondrial function in the intact cell. Studies are conducted at the molecular, organelle, cellular and in vivo level using a variety of non-invasive and molecular techniques. Several new approaches in the use of confocal microscopy to study the cellular distribution of enzymatic activity are under development. In the project, fellows will gain experience in confocal microscopy, rapid intracellular kinetic studies using laser excitation, single cell mechanics, optical spectroscopy, mitochondria function analysis as well as NMR and MRI experimentation. Appointment and salary are dependent on experience. Applications should include a CV, brief statement of research interests, and three letters of reference.

Applicants should submit a letter of interest, curriculum vitae and should arrange for three letters of recommendation to be sent to:

**Robert S. Balaban, Ph.D.**  
NIH/National Heart, Lung, and Blood Institute  
10 Center Drive, MSC 1061, Bldg. 10, Rm. B1D-416  
Bethesda, MD 20892 USA  
(301) 496-3658; [Balabanr@nhlbi.nih.gov](mailto:Balabanr@nhlbi.nih.gov).

**Applications must be received no later than 6 weeks after posting of this announcement.**

The NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free environment.



# It's a

As one of the world's leading health care companies, Abbott Laboratories is dedicated to improving people's lives through the discovery, development, manufacture and marketing of pharmaceuticals, nutritionals and medical products, including devices and diagnostics. From the discovery of sodium pentothal to a groundbreaking new generation of HIV protease inhibitors, Abbott scientists have played an important part in making life better for patients around the world. That tradition continues today at Abbott with over thirty compounds in preclinical development and a high success rate of advancing compounds to the clinic, with a pipeline that has been described as "an array of development efforts that are pioneering with blockbuster potential." Our commitment to health care is a commitment to top quality science and to hiring and retaining the best in scientific talent. We are investing over \$1 billion in research annually to address patients' unmet medical needs in our key pharmaceutical therapeutic areas of oncology, diabetes/metabolism, immunoscience, neuroscience and infectious disease.

## Abbott Neuroscience Research

Depression, schizophrenia, Alzheimer's disease, bipolar disorder and chronic pain are devastating disorders with tremendous health and economic impacts. According to the World Health Organization, more than 121 million people worldwide suffer from depression and it is a cause of disability in many countries. More than 80 million people are disabled by chronic pain. Health-related costs associated with the consequences of pain and mental illnesses in the United States exceed \$200 billion.

Neuroscience is one of Abbott's key therapeutic franchise areas. Our goal is to identify the next generation of innovative new treatments for depression, schizophrenia, Alzheimer's disease and pain. Abbott has an impressive legacy in Neuroscience, as a leader in the development of important products for the treatment of seizures, bipolar disorder and pain management for many years. To take advantage of the remarkable scientific breakthroughs that are occurring in Neuroscience all over the world, Abbott has established centers of excellence in Neuroscience in Ludwigshafen, Germany and Chicago, USA. Additionally, Abbott has formed collaborative research alliances with a number of companies to access leading edge technology and drug discovery expertise in the Neuroscience area.

To fully harness the most advanced drug discovery tools and scientific discoveries, we seek exceptional scientists who are committed to and motivated by the opportunity to discover major new products. Innovative science is the foundation for breakthrough research that will benefit the lives of millions of people suffering from neurological disorders. Join the team in either Chicago or Ludwigshafen. We are hiring extraordinary scientists now.

## POSITIONS IN CHICAGO

### Research Investigator: *in vivo* Pain Research

Will develop state of the art *in vivo* models of pain, characterize the *in vivo* properties of new analgesic agents and direct *in vivo* studies targeting the identification of novel approaches to analgesia. Must possess highly developed communication skills, a strong publication record, demonstrated leadership qualities and the ability to work within a multidisciplinary team. A Ph.D. in behavioral neuroscience, behavioral pharmacology or related discipline with 2-3 years of postdoctoral work on the neurobiology of pain, plus 3-5 years of supervisory experience in an analgesic drug discovery setting are required. **Ad Code: 8671HS**

### Senior Behavioral Pharmacologists: Pain Research (2 positions)

Will establish and characterize state-of-the-art models of pain and conduct studies to identify novel analgesics and new approaches to the treatment of pain. Must possess highly developed communication skills and the ability to work within a multidisciplinary team. A Ph.D. in behavioral neuroscience, behavioral pharmacology or related discipline with 2-3 years of postdoctoral work on the neurobiology of pain, including direct experience with rodent models of pain are required. Experience with *in vivo* microdialysis and/or immunocytochemistry is desirable.

**Ad Code: 8672HS**

### Senior Behavioral Pharmacologists: Neuropsychiatric/Neurological Research (2 positions)

Will establish and characterize rodent models of psychiatric/neurological disease or cognitive function and conduct and supervise studies to identify novel, effective compounds and new approaches for the treatment of CNS disorders. Must possess highly developed communication skills and the ability to work within a multidisciplinary team. A Ph.D. in behavioral neuroscience, behavioral pharmacology or related discipline with 2-3 years of postdoctoral work, including direct experience with rodent models of depression, schizophrenia and/or cognitive function are required. **Ad Code: 8673HS**

### Associate Behavioral Pharmacologists (6 positions)

Will evaluate compounds in state-of-the-art models of pain and neuropsychiatric/neurological disorders and conduct experiments to validate new biological approaches to therapy. A B.S. or M.S. degree, with an emphasis in behavioral neuroscience, behavioral pharmacology, physiological psychology or related discipline, extensive experience conducting behavioral assays and an understanding of experimental design and data analysis are required. Additional skills in rodent surgery,

# matter of life.

neuropharmacological techniques, such as microdialysis, and neuroanatomical techniques, such as immunocytochemistry, are desirable.  
**Ad Code: 8676HS**

## **Senior Scientist/Research Investigators: Molecular Pharmacology of Pain Transmission (2 positions)**

Will utilize excellent communication and teamwork skills to perform and direct *in vitro* studies on receptor binding, activation, regulation and signal transduction, involving G-protein coupled receptors and ligand-gated or voltage-gated ion channels. A Ph.D. in neuroscience, molecular pharmacology, biochemistry or related discipline is required. The Senior Scientist position requires 2-4 years experience in drug discovery and/or post-doctoral research in the neuroscience area. The Research Investigator position requires 5-10 years experience, including supervisory experience. The successful candidates for both positions will have strong publication records in molecular neuropharmacology, ideally in the area of pain research.  
**Ad Code: 8660HS**

## **Senior Scientist: Cell/Molecular Biology**

Will use broad molecular biology expertise and interest in pain transmission mechanisms to study drug/receptor and neurotransmitter/receptor interactions. Qualifications include a Ph.D. and a minimum of 2 years of postdoctoral experience, with a proven track record of scientific publications utilizing molecular biological approaches to neuroscience research. **Ad Code: 8662HS**

## **Senior Scientists - Neurogenomics (Multiple Positions)**

Will use genomic, genetic and bioinformatic information to discover and validate new targets in neuroscience research interest areas. A Ph.D. in neuroscience or a related biological field and a minimum of 3 years postdoctoral experience in molecular or genetic neuroscience are required. Experience in applying microarray technology, bioinformatics and molecular biology to novel target identification and validation, demonstrated proficiency in current cloning and expression techniques, fluency in sequence and RNA expression analysis tools and superb communication skills are also essential. **Ad Code: 8692HS**

## **Associate Research Scientist - Neurogenomics**

Will join a team of scientists to identify and validate new drug targets in neuroscience research interest areas. Must possess a B.S. or M.S. in neuroscience, molecular biology, genetics, bioinformatics or related fields. Preference will be given to candidates with experience in applying microarray technology, bioinformatics and molecular biology to neurosciences research programs.  
**Ad Code: 8693HS**

## **POSITIONS IN LUDWIGSHAFEN**

### **Senior CNS Pharmacologists (2 positions)**

Will utilize excellent communication and teamwork skills for directing *in vivo* research related to the identification and validation of new approaches for the treatment of depression and schizophrenia. A Ph.D. or M.D. with a background in neuroscience, pharmacology or behavioral pharmacology, and a minimum of 5 years postdoctoral experience in neuroscience are a pre-requisite. Will be hands-on innovative professionals with expertise in state-of-the-art behavioral techniques for the validation of new targets and characterization of novel compounds. Will be a recognized expert in the pathophysiology and psychopharmacology of CNS disorders as demonstrated through peer-reviewed publications and presentations. In addition, the candidate should have previous experience in the pharmaceutical/biotechnology industry.  
**Ad Code: 9642HS**

### **CNS Pharmacologists (5 positions)**

Will participate in a team dedicated to discovering innovative new treatments for psychiatric disorders. Responsibilities include validating new targets and developing the behavioral models needed for lead discovery and candidate optimization. A Ph.D. or M.D. with a background in neuroscience, pharmacology or behavioral pharmacology, and 2-4 years of postdoctoral experience in neuroscience are a pre-requisite. Must have expertise in electrophysiology, microdialysis and/or *in vivo* voltammetry, anatomical, histological, biochemical psychopharmacological techniques and behavioral techniques. A strong publication record and excellent communication skills, including fluency in German and English are required. The opportunity to direct the research of others is available, depending on the level of experience.  
**Ad Code: 9643HS**

### **Laboratory Head CNS Molecular Biology**

Will be responsible for the identification and validation of new molecular approaches for the treatment of CNS disorders. A Ph.D. (cellular biologist, molecular biologist) with 3-5 years postdoctoral experience in neuroscience and demonstrated expertise in state-of-the-art molecular biological technologies are required. Will be a recognized expert in the pathophysiology and molecular mechanisms underlying CNS disorders and possess experience in the pharmaceutical/biotech industry that is reflected in an understanding of current drug discovery strategies for the identification of innovative CNS therapeutics. Superior leadership skills as exemplified by a proven ability to lead a team, define problems and execute solutions, are required, as are excellent communication skills including fluency in English and some German. **Ad Code: 9644HS**

### **Laboratory Head CNS Biochemistry/Cell Biology**

Will be responsible for the identification and validation of new drug targets for the treatment of CNS disorders. With a Ph.D. (cell biology, biochemistry) and 2-5 years of postdoctoral experience in neuroscience, the candidate should possess experience in the pharmaceutical/biotech industry and superior leadership skills as exemplified by a proven ability to lead a team, define problems and execute solutions. Excellent communication skills including fluency in English and some German are essential. **Ad Code: 9645HS**

### **Laboratory Head CNS Medicinal Chemistry (5 positions)**

Will be responsible for designing and executing synthesis programs for new chemical entities for novel CNS molecular targets. With a Ph.D. in chemistry and a minimum of 2 years experience in synthesis of CNS related drug candidates, the candidate will possess demonstrated expertise in state of the art medicinal chemistry technologies and development of patent applications and a strong understanding of all facets of the drug discovery process. Strong communication and leadership skills, as well as the ability to systematically plan and execute research strategies are essential.  
**Ad Code: 9646HS**

Abbott Laboratories offers a competitive benefits package, including outstanding health insurance, vacation, wellness and work/life policies. We have been recognized by Money magazine for our people programs, listed among Working Mother magazine's "100 Best Companies for Working Mothers," and chosen by Fortune magazine as one of the "Top 50 Companies for Minorities." Fortune has consistently named us one of "America's Most Admired Companies" for eighteen years.

For immediate consideration, please visit [www.abbott.com](http://www.abbott.com), click "Career Center," click "Job Opportunities" and enter the appropriate ad code in the "Keyword" field.

Visit our website, [www.abbott.com](http://www.abbott.com), to view career opportunities at our corporate headquarters in north suburban Chicago, IL, USA and our research sites in Worcester, MA, USA; Ludwigshafen, Germany; and Katsuyama, Japan. Current openings in oncology will be featured in future advertisements.

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## William P Coldrick Professor of Genomics

We are an established leader in biomedical research and are currently making a major investment in both staff and facilities, to develop Bristol as a world-class functional genomics research centre. Recent investment in this area includes £10M of JIF funding for a new suite of integrated cell signalling laboratories and substantial SRIF funding for enhanced proteomic facilities.

As a key part of this development, the Department of Biochemistry is seeking to appoint an outstanding Scientist with a proven research record in the area of invertebrate (e.g. *C. elegans* or *Drosophila*) molecular genetics and an enthusiasm to collaborate with a range of different research groups within the University, in exploiting human and mammalian post-genomic research. The Department of Biochemistry has excellent research facilities and you will benefit from the provision of a completely refurbished laboratory as well as some initial staff and equipment support.

You will also be expected to be an enthusiastic teacher, although teaching (and administrative) duties will be light for the first two years.

Further information about the research of the Department and this particular post is available on the Departmental Web Site (<http://www.bch.bristol.ac.uk>). Informal enquiries may be made to Professor Len Hall (telephone (0117) 928 7433, e-mail [L.Hall@bristol.ac.uk](mailto:L.Hall@bristol.ac.uk)).

For further details telephone (0117) 954 6947, minicom (0117) 928 8894 or e-mail [recruitment@bristol.ac.uk](mailto:recruitment@bristol.ac.uk) (stating postal address ONLY) quoting reference 8253. Electronic applications must include an "APPLICATION FORM FOR AN ACADEMIC VACANCY", found at <http://www.bristol.ac.uk/Depts/Personnel/recruit.htm>

The closing date for applications is 9.00am, 26th April 2002.

[www.bristol.ac.uk](http://www.bristol.ac.uk)

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## RESEARCH AGRONOMIST

The position is located in the Animal Manure and By-products Lab, ANRI, ARS, in Beltsville, MD. The incumbent will be responsible for conceiving, planning, and carrying out integrated research with soils, plants, and animals with the goal of limiting phytoavailability and bioavailability of forms or amounts of heavy metals in manure, by-products amended soils, and existing orchard soils that are contaminated with heavy metals. Applicants must have a degree in agronomy or related discipline that includes at least 30 semester hours of basic plant sciences, including at least 15 hours in agronomic subjects. In addition, applicants must have one year of specialized experience as indicated in the vacancy announcement or applicants at the GS-12 level can also qualify with either a Ph.D. or equivalent Doctoral degree. Must be US citizen.

Closing date of this announcement is March 25, 2002. **Telephone: 301-504-1482** to request a copy of ARS-X2E-2147 or access website: <http://www.ars.usda.gov/afm/hrd/resjobs>.

*USDA/ARS is an Equal Opportunity Provider and Employer.*



## GRA/MCG Eminent Scholar Endowed Chair in Neuroscience

The Medical College of Georgia (MCG), Georgia's Health Sciences University seeks to recruit a senior scientist of national and international stature to fill the position of a newly established endowed chair in Neuroscience. The position is endowed jointly by MCG and the Georgia Research Alliance (GRA) through the nationally acclaimed GRA Eminent Scholar program. The GRA invests in research infrastructure development at academic research campuses across the State of Georgia through endowed chairs and capital investment in core research facilities designed to stimulate translational research leading to biomedical and clinical opportunities for technology transfer to industry.

The individual appointed to this senior faculty position will be primarily committed to the MCG research mission but will also contribute to the teaching and service missions of MCG (<http://www.mcg.edu/research.htm>). Substantial startup funds will be provided, including additional faculty slots. Excellent core facilities are also available, including Electron Microscopy, Histology, Transgenic and Knockout Mouse, Transgenic Zebrafish, Molecular Biology, Flow Cytometry, Proteomics and Genomics, Mass Spectrometry, Behavioral Core, and Cell Imaging facilities. In addition, a Center of Excellence in Neuroscience exists.

Candidates for the Eminent Scholar Chair in Neuroscience should have a proven track record of well-funded and productive research sustained over a number of years. Currently, the strengths of the neuroscience community at MCG are in the following areas: neural stem cell biology, neurodegenerative diseases and neural repair, synaptic plasticity, stroke, epilepsy, behavioral sciences, and neural signaling. The individual appointed will be expected to take an active leadership role in the development of a comprehensive neuroscience center. Opportunities also exist for contributing to the teaching and mentoring of medical, graduate and M.D./Ph.D. students. Applications for this position should be sent to: **Ann Gambill, MCG, IMMAG, 1120 15th Street, CB-2803, Augusta, GA 30912 (email: [agambill@mail.mcg.edu](mailto:agambill@mail.mcg.edu))**. Additional details about this position may be obtained from one of the co-chairs of the search committee, **Dr. Robert Yu ([ryu@mail.mcg.edu](mailto:ryu@mail.mcg.edu))** or **Dr. David Hess ([dhess@mail.mcg.edu](mailto:dhess@mail.mcg.edu))**. Review of applications will begin on April 15, 2002. AC#43220, P.O. #E-020578.

*EEO/AA/Equal Access employer. We invite applications or nominations from women, under-represented racial minorities, and the handicapped.*



## GRA/MCG Eminent Scholar Endowed Chair in Molecular Medicine/Cell Signaling

The Medical College of Georgia (MCG) seeks to recruit a nationally recognized scientist to fill the position of Eminent Scholar in Molecular Medicine. The position is endowed by MCG and the Georgia Research Alliance (GRA) through the nationally acclaimed GRA Eminent Scholar program. The GRA invests in research infrastructure development at academic research campuses across the State of Georgia through endowed chairs and capital investment in core research facilities. This investment is designed to stimulate translational research leading to biomedical and clinical opportunities for technology transfer to industry.

The Eminent Scholar in Molecular Medicine will assume leadership of the Cell Signaling Program of the Institute of Molecular Medicine and Genetics. In addition to a substantial endowment, the successful applicant will be provided with the resources required to expand their own research program and to recruit additional faculty.

As Georgia's Health Sciences University, MCG ([www.mcg.edu](http://www.mcg.edu)) is committed to a major expansion of its research program. The University maintains several state-of-the-art core laboratories, including imaging, proteomics, genomics, mass spectrometry and mouse and zebrafish transgenic facilities. Augusta is Georgia's second largest city, and is located within easy reach of the coast and other major metropolitan areas.

Applications should be sent to: **Dr. Nevin Lambert, care of Ms. Ann Gambill, MCG, IMMAG, 1120 15th Street, CB-2803, Augusta, GA 30912**. E-mail inquiries may be sent to [nlambert@mail.mcg.edu](mailto:nlambert@mail.mcg.edu). AC#41250, P.O. #E-020578

*EEO/AA/Equal Access Employer.*

## Max-Planck-Institute for Neurobiology Martinsried/München



### STAFF POSITION IN CELLULAR / MOLECULAR IMMUNOLOGY

The Department of Neuroimmunology (Max-Planck-Institute of Neuro-biology) is recruiting a

### Research Scientist

to complement the department's neuroimmunology program, which is focussed on the cellular basis of autoimmunity, interactions between immune and nervous system, and the development of novel gene therapies. The ideal candidate has completed at least three years of postdoctoral research, and has a strong background in the molecular/cellular biology of B cells or T cells.

Salary is according to BAT (German Tariff).

Physically handicapped people will be favoured, if they are equally qualified.

The Max-Planck-Institute wishes to increase the number of women employed in sections with minor female representation. Women are therefore explicitly encouraged to apply.

Send C.V., name of three referees, and synopsis of previous work to

### Max-Planck-Institute for Neurobiology

Department of Neuroimmunology

Dr. Hartmut Wekerle

Am Klopferspitz 18a, D-82152 Martinsried

Tel.: ++49 89 8578-3550

Fax: ++49 89 8578-3790

E-mail: [hwekerle@neuro.mpg.de](mailto:hwekerle@neuro.mpg.de)

[www.neuro.mpg.de](http://www.neuro.mpg.de)



MAX-PLANCK-GESellschaft

## POSTDOCTORAL RESEARCH FELLOWS

The Commonwealth Center for the Study of Brain Injury, an internationally recognized leader in the experimental study and treatment of traumatic brain injury, is seeking outstanding M.D./Ph.D. candidates to fill NIH funded postdoctoral training grant positions. The Commonwealth Center involves both basic and clinical neuroscientists who use a broad range of techniques and approaches to study the pathobiology of traumatic brain injury and its therapeutic management. A strong emphasis is placed upon translational research. Currently, opportunities are available with the following investigators:

- **M. Ross Bullock, M.D., Ph.D.** - Clinical and experimental studies focusing on mitochondrial dysfunction and its attenuation through the use of immunophilin ligands.
- **Robert DeLorenzo, M.D., Ph.D.** - Calcium-induced neuronal changes in traumatic and epileptic paradigms.
- **Earl F. Ellis, Ph.D.** - Tissue culture models of strain-induced brain cell injury and pharmacologic treatment of alterations in calcium signaling, mitochondrial function and structural abnormalities.
- **Robert J. Hamm, Ph.D.** - Receptor-mediated alterations in neuronal signaling and their behavioral sequelae.
- **Anthony Marmarou, Ph.D.** - Brain edema and swelling as assessed through the use of NMR spectroscopy and diffusion weighted imaging.
- **Linda L. Phillips, Ph.D.** - Molecular and cellular factors responsible for maladaptive plasticity following brain injury, with emphasis on extracellular matrix and neurotransmitter pathways.
- **John T. Povlishock, Ph.D.** - Subcellular mechanisms involved in progressive axonal and neuronal somatic change following traumatic brain injury, with emphasis on targeted therapeutic intervention.
- **Susan E. Robinson, Ph.D.** - Perturbations of cholinergic and excitatory amino acid-containing neurons by traumatic brain injury.
- **Leslie S. Satin, Ph.D.** - Stretch injury-induced alteration of brain neurotransmitter receptor channels.

These positions are funded through an NIH training grant in its 16th year. Only American citizens or permanent residents are eligible to apply. Qualified applicants should send a curriculum vitae, a brief description of recent research, and the names, telephone numbers and e-mail addresses of three references to:

**John T. Povlishock, Ph.D.**  
**Director of the Commonwealth Center for the Study of Brain Injury**  
**Medical College of Virginia Campus, Virginia Commonwealth University**  
**P.O. Box 980709**  
**Richmond, VA 23298-0709**

*Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*



## phylos ADVANCED PROTEIN PERFORMANCE

*Phylos is a biopharmaceutical company, developing technologies that will play a pivotal role in translating the human genome into novel pharmaceutical products. The Company has rapidly advanced its broad drug discovery platform while assembling an outstanding team of over 85 scientists, management, and support personnel.*

### **Sr Dir/Dir., Process Development**

**Job Code: SC111-302**

The Process Development group is responsible for the development and application of mid- to large-scale expression and purification systems for therapeutic candidates emerging from PROfusion™ technology. These products are primarily small protein domains expressed in E. coli and will require high level bacterial expression approaches as well as large scale folding and/or purification expertise. Candidates should have 7-10 yrs exp. post-PhD, mostly in a relevant industrial setting and a strong background in process development, especially of bacterial expressed products. Strong interactive skills and a science-based, problem-solving approach are critical.

### **Director, Protein Development**

**Job Code: SC15-302**

In this key position, you will manage a state-of-the-art protein production facility and an energetic group that is focused in the following areas: automation of the production of antibody mimetics, production of target proteins in heterologous systems, development of expression systems, and purification of proteins for preclinical diagnostics and therapeutic applications. The candidate should possess broad scientific and mgmt experience w/ the following systems: process development, gene cloning from cDNA libraries, vector construction, protein production across a variety of prokaryotic and eukaryotic expression systems, and manufacturing (GMP). A PhD and 10 yrs exp., along w/ excellent organization, communication and mgmt skills required.

Phylos offers a competitive compensation package that includes health benefits, 401k, tuition asst. and stock options. Phylos is an equal opportunity employer. Send CV's to **Phylos, Inc., 128 Spring Street, Lexington, MA 02421**, via e-mail to **jobs@phylos.com**, or fax to **781-402-8813**.

Must indicate job code. PLEASE, NO PHONE CALLS.

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

### **Sr. Research Scientist/Group Leader**

**Structural Biochem. Biophysical Characterization**

**Job Code: SC11-302**

We are looking for a Protein Characterization specialist who will evaluate biophysical properties of engineered antibody mimics. The position requires the knowledge of the techniques for the determination of homogeneity, stability, solubility, and state of aggregation of proteins, including mass spectroscopy, calorimetry, analytical ultracentrifugation, and dynamic light scattering. In addition, the candidate will be expected to contribute to the development of protein modification and protein refolding protocols. A background in molecular biology, protein purification, determination of binding and inhibition constants, or structural biology, as well as supervisory and industrial experience preferred. A PhD and 3 plus yrs. exp. in a related field required.

### **Sr. Research Scientist/Group Leader**

**Structural Biochem. Structure Determination**

**Job Code: SC12-302**

We are looking for a versatile X-ray crystallographer to build and lead a new Structure Determination Group, which will play a key part in our multidisciplinary approach to the engineering of antibody mimics. In addition to an extensive background in protein structure determination and in the analysis of structure-function relationships in macromolecular complexes, the candidate must have a working knowledge of protein expression and purification, as well as a track record of interdisciplinary collaboration. This position requires supervisory and project-mgmt exp., preferably in the biotech/pharma industry. Successful candidates will have a PhD and at least 5 yrs. exp. in a related field.



## RESEARCH, EDUCATION, AND ECONOMICS AGRICULTURAL RESEARCH SERVICE VACANCY ANNOUNCEMENT RESEARCH POSITIONS

**Position Title:** Research Chemist

**Series/Grade:** GS-1320-11/12/13

**Salary Range:** \$45,285 to \$83,902 per annum

**Type of Appointment:** Permanent, Full-time

**Location of Positions:** South Atlantic Area, Citrus & Subtropical Products Laboratory, Winter Haven, Florida

**Closing Date:** May 31, 2002

This position serves as a member of a team of researchers investigating new technologies for the development of novel value-added products from undervalued citrus byproduct streams, specifically peel and peel components. You must have a degree in physical/life sciences or engineering and knowledge of principles, theories, and practices of carbohydrate chemistry, ability to conduct product development research, and ability to plan and conduct research and report results on carbohydrates, macromolecules, biopolymers, and/or related biomaterials. For application materials call: **Toni Rouillier at 561-462-5811** or visit our website at **www.ars.usda.gov**.

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we spend  
**\$8 million**  
on R&D.

How's that for  
an investment  
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Our R&D investment has resulted in industry-leading innovation and best-selling treatments. In fact, our commitment to R&D has made us a global pharmaceuticals leader. It's an investment in our future together that means we're looking forward to continuing to make a big difference. Make an investment in your future in one of these critical positions at our **Wilmington, Delaware** R&D facility:

#### **Associate Director, Molecular Pharmacology**

In this role, you will manage the Molecular Pharmacology Section, focusing on staff development, as well as the validation of drug targets and optimization of compounds using cell-based and cell-free assays. Involves introducing state of the art technology in receptor and enzyme kinetics as well as electrophysiology for the characterization of the interaction of compounds with their molecular targets.

Requires a Ph.D. or equivalent degree plus 5 years research experience in molecular pharmacology. You must possess a thorough understanding of the drug discovery process and a proven track record in progressing compounds through early and late phases of discovery. Working knowledge of electrophysiology, receptor pharmacology and kinetics with emphasis on CNS drug targets is essential. The ideal candidate will have an established research reputation supported by a strong record of publication in refereed journals. Excellent organizational, interpersonal, computer and verbal/written communication skills are a must, as well as the ability to work in a cross-cultural, multi-disciplinary, team environment. **Source Code 00404152**

#### **Scientist, Neuroscience**

We currently have an opening for a Scientist in the Behavioral Pharmacology group within our Neuroscience Department. This individual will be a part of the Behavioral Pharmacology team and will be responsible for utilizing behavioral screening procedures and animal models to assess the effects of drugs given to candidates for the treatment of neurologic and psychiatric disorders. The ability to function in a team environment and effectively communicate scientific information is essential. Must also be able to generate accurate results documentation.

Requires a Ph.D. plus 2-3 years experience working with non-operant behavioral techniques and/or behavioral testing of transgenic mice utilizing anxiety, depression, learning and memory behavioral tests. Postdoctoral experience desired. **Source Code 00403926**

#### **Associate Scientist, Neuroscience**

We currently have an opening for an Associate Scientist in the Neuropharmacology group within our Neuroscience Department. This individual will be a part of the Neuropharmacology team and will be responsible for conducting independent, statistically, and neurobiologically-sound experimental design and neuropharmacological assay development. Will also perform novel drug testing for therapeutic application in neurological and psychiatric disease.

We are seeking a Neuropharmacologist with expertise in the application of standard biochemical and pharmacological techniques to in vivo CNS, ex vivo brain and neuronal culture preparations. The ideal candidate will be a strongly independent scientist with pharmacological assay development and drug discovery experience. Requires basic neuroscience knowledge and the ability to generate accurate results documentation. Knowledge of neurological and psychiatric disease preferred. **Source Code 00403927**

AstraZeneca offers outstanding rewards to those who can help us help others. **Please reference Source Code and apply online at: [www.AstraZenecaCareers.com](http://www.AstraZenecaCareers.com) or send your resume to: AstraZeneca, 1600 Falmouth Road, Box 186, Attn: (Source Code Here), Centerville, MA 02632. Fax (800) 552-1229 or e-mail: [resumes@astrazenecajobs.com](mailto:resumes@astrazenecajobs.com).** AstraZeneca is proud to be an Equal Opportunity Employer.



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- **Proteomics Product Marketing** (Job #1002500)
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- **Mass Spectrometer Product Marketing Specialist** (Job #1001524)
- **R&D Engineer, Scientist** (Job #1001200)
- **Nucleic Acid Chemist-Microarray Manufacturing** (Job #1002104)

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## ROBERT C. BYRD HEALTH SCIENCES CENTER

OF WEST VIRGINIA UNIVERSITY

### West Virginia University Mary Babb Randolph Cancer Center 4 Faculty Positions Bacterial Pathogen-Host Cell Interactions Signal Transduction in Eukaryotic Cells

The Robert C. Byrd Health Sciences Center at West Virginia University seeks faculty candidates at the Full, Associate and/or Assistant Professor levels. Each faculty member will also be appointed as a member of the Mary Babb Randolph Cancer Center. Competitive start-up and salaries depending on rank will be offered.

- **Signal Transduction:** The Department of Biochemistry and Molecular Pharmacology is seeking two candidates in any area related to signal transduction in eukaryotic cells with an emphasis on molecular pharmacology. One position will be at the Full/or Associate Professor level and the other at the Assistant Professor level.
- **Bacterial Pathogen-Host Cell Interactions:** The Department of Microbiology, Immunology and Cell Biology is also seeking two candidates in the area of microbial pathogenesis with an emphasis on bacterial-host cell interactions.

The Mary Babb Randolph Cancer Center and the West Virginia University School of Medicine are in a dynamic growth phase and provide an ideal research environment for both established and beginning investigators. The School of Medicine is part of the Robert C. Byrd Health Sciences Center that has modern core facilities including Flow Cytometry, Mass Spectrometry/Proteomics, Genomics, a Transgenic Mouse Facility, a DNA/instrumentation core facility, a Confocal and Fluorescence Microscopy Core Facility, and an Electron Microscopy Core Facility. The School of Medicine has an emphasis in cancer and neurobiology research organized into two research centers: The Mary Babb Randolph Cancer Center, which serves as the home for West Virginia University's interdisciplinary studies on Cancer Cell Biology, as well as the Blanchette Rockefeller Neurosciences Institute.

The city of Morgantown is located in northern West Virginia, approximately 70 miles south of Pittsburgh and 3 hours west of Baltimore and Washington D.C. Morgantown's location in the foothills of the Appalachian Mountains makes it both picturesque and provides numerous outdoor activities. It is listed among the best small towns in the USA, with affordable housing, excellent schools, a very low crime rate and easy access to a variety of four season activities including ski resorts, cross country skiing, white water rafting, hiking and biking trails, and many activities geared towards children.

Candidates must have a Ph.D. and/or M.D. degree. Applications will be screened starting May 1, 2002 and will continue until the positions are filled. Applicants should send a curriculum vitae, names of 3 references and a statement of research interests to:

**Stephen Graber, Ph.D.**

**Faculty Search Director-Signal Transduction**

or

**Nyles Charon, Ph.D.**

**Faculty Search Director-Pathogen Host Cell Interactions**

**PO Box 9300, MBRCC  
West Virginia University  
Morgantown, WV 26506-9300**

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At Perlegen Sciences, we possess a high-density, whole-wafer microarray technology that enables us to compare the entire genomes of thousands of diseased and healthy individuals in order to associate genetic regions with important phenotypes. We invite you to consider joining our unique company as we apply this technology to bring focus to biological research and to accelerate the discovery of drugs and diagnostics. Recently established, we are a well-funded, pre-IPO company that is moving quickly, building a world-class team.

### GENETIC EPIDEMIOLOGISTS

We are seeking researchers to participate in new projects aimed at understanding the genetic basis of complex human traits. This will involve the creation of new study designs, evaluation of the merits of existing population studies, and a combination of research, grant writing, and scientific publication. Applicants must hold a PhD in Epidemiology with a specialization in genetic epidemiology. Significant experience in interdisciplinary research and in the design, conduct, analysis, and interpretation of human genetic epidemiologic studies is needed.

Mail, fax, or email your resume, indicating Job Code MCD10, to Perlegen Sciences, Human Resources, 2021 Stierlin Court, Mountain View, CA 94043. Fax to 650-625-4580. Email [perlegen\\_HR@perlegen.com](mailto:perlegen_HR@perlegen.com). EOE.

For more information on this position and other opportunities, visit our website at

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



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**NIGMS**

**National Institute of General Medical Sciences (NIGMS)  
National Institutes of Health (NIH), Bethesda Maryland  
Health Scientist Administrator**

**Announcement No. NIGMS-02-0005**

The NIGMS, a component of the NIH, is seeking a Health Scientist Administrator to serve as the **Director of the Minority Biomedical Research Support (MBRS) Branch**, Division of Minority Opportunities in Research. The MBRS Branch plans and directs a program of competitive institutional research and resource grants to increase the number of researchers who are members of minority groups that are underrepresented in the biomedical sciences. These grants support research by faculty members, strengthen the institutions' biomedical research capabilities, and provide opportunities for students to work as part of a research team. The MBRS Director is responsible for the scientific and administrative management of the Branch and serves as a staff scientist with responsibilities for the scientific administration of MBRS grants.

**The Requirements:** You must have a doctorate or equivalent degree in a field relevant to the position. The ideal candidate will have experience with minority programs targeted to underrepresented minorities and experience with minority-serving institutions; knowledge of biology and/or chemistry with specific expertise in at least one of these areas: biochemistry, cell biology, molecular biology, microbiology, organic chemistry, physiology, pharmacology, or genetics; and the ability to communicate orally and in writing on a variety of scientific and administrative topics.

The NIGMS offers 10 paid holidays a year, flexible work schedules, paid vacation and sick leave, family-friendly leave programs and a wonderful training budget for all employees. 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.

**To apply, you MUST address the REQUIRED Knowledge, Skill, and Abilities (KSAs) identified for the vacancy.** The KSAs and other job information can be found at the following URL: <http://www.jobs.nih.gov/> and click on "Current Vacancies", enter announcement number: NIGMS-02-0005. To receive by FAX, call (301) 594-2953 or 1-800-728-JOBS and enter FAX ID: 3602. For additional information contact:

**NIGMS Personnel Office  
45 Center Drive - MSC 6200  
Bethesda, MD 20892-6200  
(301) 594-2749  
e-mail: NIGMSAPPS@NIGMS.NIH.GOV  
TDD (301) 402-6327**

Closing date: 4/22/2002 - All applications must be postmarked by the closing date.

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**NATIONAL INSTITUTE FOR MEDICAL RESEARCH  
Post Doctoral Positions in Molecular Immunology**

Applications are invited for the following three year postdoctoral positions in the Division of Molecular Immunology (<http://www.nimr.mrc.ac.uk/molimm/>)

**Chromatin remodelling – Dr Dimitris Kioussis (Ref: IMI/DK/PD)**

Project to work on the role of chromatin remodelling in the regulation of the CD8 gene locus expression. Experience in molecular biology techniques (RNA, DNA manipulation, cloning etc) is advantageous. The laboratory has expertise in a variety of gene regulation model systems (see Immunity, 1997, 7, 525-536; Immunity, 1998, 9, 497-508; Nature Genetics, 1999, 23, 457-461; EMBOJ, 1999, 18, 6356-6405).

Informal enquiries may be made to: Dr Dimitris Kioussis by telephone: +44 (0) 20 8959 3666, ext. 2194; or e-mail: [dkiouss@nimr.mrc.ac.uk](mailto:dkiouss@nimr.mrc.ac.uk).

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**Lymphoid system in the mouse – Dr Alexandre Potocnik (Ref: IMI/AP/PD)**

Project to work on the development of the lymphoid system in the mouse. The newly established research group will mainly focus on the compartmentalisation of haemato-lymphoid progenitor populations and their developmental potential. To this end, we generate transgenic and knock-out mice for the further dissection of mechanism involved in lymphopiesis (see Immunity, 2000, 12, 653-663; Curr Top Microbiol Immunol 2000, 251, 43-50). The work will involve the generation of genetically engineered mutants, and analysis of lymphoid development and fate specification. Applicants should have a strong background in molecular biology, and experience of some aspect of progenitor cell biology in the haematopoietic system would be advantageous.

Informal enquiries may be made to: Dr Alexandre J. Potocnik by telephone: +44 (0) 20 8959 3666, ext. 2193; or e-mail: [apotocn@nimr.mrc.ac.uk](mailto:apotocn@nimr.mrc.ac.uk).

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The Institute provides excellent facilities and training for researchers in a multi-disciplinary environment.

Salary for these MRC funded posts is from £22,776 to £31,743 per annum (inclusive of Scientist Supplement and Location Allowance). Membership of the MRC Pension Scheme is available.

Formal applications, which should include a full CV and the names and addresses of two professional referees, should be sent to Mark Franklin, Personnel Manager, National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA quoting the appropriate reference number

Closing date: 12th April 2002

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Medical Research Council



As one of the world's top five pharmaceutical organizations, AstraZeneca is on the front lines of drug discovery and development. Together, our nine R&D centers around the world have delivered some of the most effective and widely used pharmaceuticals available. And today, with the addition of our state-of-the-art **AstraZeneca R&D Boston** center in **Waltham, Massachusetts**, we are better equipped than ever to deliver new drugs in the areas of Cancer and Infectious Diseases that ensure a higher quality of life for people around the globe.

Today, our aggressive drug discovery efforts continue to expand further through our US-based Cancer Discovery Research, Infection Discovery Research and leading-edge Enabling Science and Technology groups at AstraZeneca R&D Boston. This innovative new facility is home to excellent intellectual, scientific, and technological resources. Our work spans the full spectrum of drug discovery, from exploratory and medicinal chemistry to genomics, helping us to rapidly move from the gene to the clinic with high quality candidate drugs.



Our **Cancer Discovery Area** is a rapidly growing group that will strengthen the global AstraZeneca presence in cancer therapeutics. The cancer chemistry group is utilizing leading-edge technologies such as informatics, protein crystallography and NMR, HTS, and combinatorial chemistry to guide drug design in our pursuit of life-enhancing medicines for cancer patients.

- **Scientists: Medicinal Chemistry, Computational Chemistry, Bioinformatics**
- **Research Associates: Molecular Biology, Medicinal Chemistry, Automation, Enzymology, In Vivo Sciences**

Our **Infection Discovery Area** has the mission to discover novel agents for unmet medical needs in bacterial and fungal infection. Employing a genomic, target directed strategy, state-of-the-art technologies (including protein crystallography and NMR, HTS, and combinatorial chemistry) are applied by medicinal chemists to identify and optimize lead compounds.

- **Post-Doc: Synthetic/Medicinal Chemistry**
- **Research Associate: Biochemistry**

Our **Drug Metabolism and Pharmacokinetics Areas** have a central role in the discovery of new therapeutic entities key to Cancer and Infection Drug Discovery.

- **Scientists: In vitro and/or in vivo Metabolism & Kinetics within Drug Discovery or Molecule Bioanalytical (LC/MS/MS) background**
- **Research Associates: In vitro Metabolism, Pharmacokinetics, Small Molecule Bioanalysis**

Our **Enabling Science and Technology Center** is part of this innovative, leading-edge venue, providing powerful capabilities in state-of-the-art, high throughput technologies and novel scientific approaches in Combinatorial and Parallel Chemical Synthesis; Cheminformatics and Bioinformatics; Mathematical Modeling of Human Physiology and Disease; and Drug Target Identification and Validation.

- **Team Leaders - Medicinal/Synthetic Chemistry, Bioinformatics**

Candidates interested in contributing to the momentum of success at AstraZeneca, please forward your resume, **referencing Science 3-15**, to: **AstraZeneca R&D Boston, 35 Gatehouse Drive, Waltham, MA 02451; E-mail: hr@astrazeneca.com; Fax: 781.639.4530**. Diversity is the essence of our science, our careers and our lives. We are an equal opportunity employer.



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## Scientific Curators

Professional positions are available for Scientific Curators in the expanding Mouse Genome Informatics Programs at The Jackson Laboratory. Working with the Mouse Genome Database, Gene Expression Database, Mouse Genome Sequence Project, Gene Ontology Project and the Rat Genome Database Collaboration, successful candidates will be primarily responsible for: data acquisition and analysis, evaluating and annotating data to be incorporated into the databases, integrating information from disparate sources, and interacting with research laboratories and genome centers to facilitate data transfer. In addition, Curators take part in database and interface design by contributing biological perspectives to new data content and displays.

Areas of preferred expertise include mammalian or comparative genomics, molecular, cellular, or developmental biology, anatomy, sequence analysis, and biochemistry. Other desirable attributes include excellent writing/communication skills and the ability to work effectively in a team environment. Ph.D. degree in Life Sciences or M.S. with appropriate experience required.

The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, ocean, forests, lakes, and trails are all within walking distance. If you love high tech challenges but you're looking for a more natural environment, this is the opportunity you've been searching for. **(Please refer to job posting # sci/SC/21)**

**Interested applicants should send cover letter and c.v. to:**  
Human Resources, The Jackson Laboratory, 600 Main Street, Box 27  
Bar Harbor, Maine 04609 **Phone:** (207) 288-6103  
**Fax:** (207) 288-6106 **Email:** [jobs@jax.org](mailto:jobs@jax.org)

*The Jackson Laboratory is an equal opportunity/affirmative action employer.*

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## Centre for Neuroscience Studies Queen's University

**A TIER 2 CANADA RESEARCH CHAIR  
(TENURE-TRACK POSITION) IN NEUROSCIENCE**

The successful candidate must hold a Ph.D. in a field related to neuroscience, show strong potential for success in research, complement existing research strengths in neuroscience and be able to teach neuroscience at the graduate and undergraduate levels. Qualified candidates from all nationalities will be given equal opportunity for this position.

### TENURE-TRACK POSITION AT THE ASSISTANT PROFESSOR LEVEL IN NEUROSCIENCE

The successful candidate must hold a Ph.D. in a field related to neuroscience, show strong potential for success in research, complement existing research strengths in neuroscience and be able to teach neuroscience at the graduate and undergraduate levels. All qualified candidates are encouraged to apply however Canadian citizens and permanent residents will be given first priority.

Queen's University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people, persons with disabilities, gay men and lesbians.

Applications including curriculum vitae, copies of recent publications, one page statement of research interests and names of three referees should be sent to: **Dr. Douglas P. Munoz, Director, Centre for Neuroscience Studies, Room 106 Abramsky Hall, Queen's University, Kingston, Ontario Canada K7L 3N6. Telephone (613) 533-6360; Fax (613) 533-6840.** Please indicate in cover letter which position(s) you are applying for. Positions are available immediately with review of applications and interviews commencing May 1, 2002 and continuing until the positions are filled.

## NATIONAL INSTITUTES OF HEALTH

### NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM

A position is opening for an independent scientist to head the Section on Behavioral Science and Genetics within the Laboratory for Integrative Neuroscience at the National Institute on Alcohol Abuse and Alcoholism (NIAAA). Applicants should hold a Ph.D. or M.D. degree and have at least 3 years of postdoctoral research experience. This will be a tenure-track or tenured position, depending on the experience level of the individual identified. The successful applicant should have extensive experience in analysis of rodent behavior and behavioral pharmacology, with analysis of behavior of mouse genetic models preferred. The individual who fills the position is expected to establish an independent program of investigation into the in vivo neural actions of drugs or alcohol and other drugs of abuse. Individuals with an interest in alcohol effects on cognition will be given strong consideration.

Interested candidates should submit a C.V., list of publications, a brief research proposal that reflects the applicant's research interests and proposal for establishing an independent research program, and names of 3 individuals who could be contacted for reference to:

**Ms. Kathleen Hanratty**  
NIAAA Intramural Personnel  
Office  
NIH, Bldg. 31, Room 1B58  
31 Center Drive MSC 2088  
Bethesda, MD 20892-2088

Applications must be received by  
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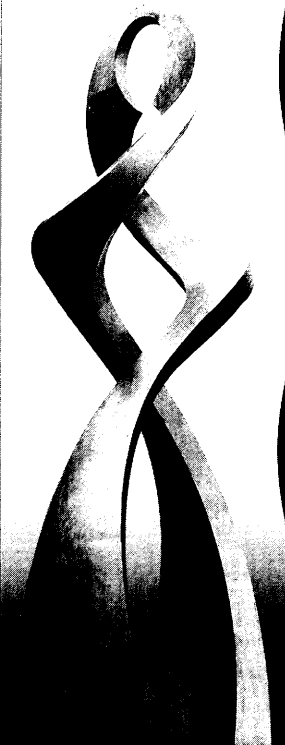
Jamaica

At TIGR we pride ourselves on an excellent, diverse faculty whose talent and insight have positioned the Institute at the forefront of genomic research. Since TIGR's founding as a not-for-profit research institution in 1992, TIGR scientists have not only sequenced the genomes of more than 25 organisms (including *Haemophilus influenzae*, *Helicobacter pylori*, *Vibrio cholerae*, and a number of archaea), but also developed the tools that made sequencing possible. Now, as TIGR celebrates its 10<sup>th</sup> Anniversary, we are rapidly moving ahead in functional genomics and bioinformatics to uncover new data in the fields of microbial, parasite, plant, and mammalian genomics. TIGR's new Pathogen Functional Genomics Resource Center provides centralized resources for the study of pathogens of major importance, beginning with *Streptococcus pneumoniae*, *Staphylococcus aureus*, and *Salmonella typhimurium*. TIGR is also at the leading edge of analysis of *Bacillus anthracis*.

TIGR's president, Claire M. Fraser, is an internationally recognized leader in genomics research and policy, who is dedicated to fostering an environment that rewards creativity and intellectual risk-taking. About one-third of TIGR's faculty members are women from all over the world. All of which makes TIGR a truly exceptional place to do science.

**TIGR**  
THE INSTITUTE FOR GENOMIC RESEARCH

  
**STOWERS INSTITUTE**  
FOR MEDICAL RESEARCH



### Stowers Institute Postdoctoral Program

The Stowers Institute seeks more effective means of preserving health and preventing disease through basic research on genes and proteins that control fundamental processes of cellular life. The Institute offers fellowships for postdoctoral research training in state-of-the-art laboratories headed by outstanding scientists who work at the bench alongside their team members. Among the Mentors are:

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**James Coffman, Ph.D.**  
*Genomic regulatory systems in sea urchin embryogenesis*  
**Joan Conaway, Ph.D.**  
*Mechanism and regulation of transcription by RNA polymerase II*  
**Ron Conaway, Ph.D.**  
*Molecular mechanism and regulation of gene transcription*  
**Chunying Du, Ph.D.**  
*Control of apoptosis in mammalian systems*  
**Jennifer Gerton, Ph.D.**  
*Mechanisms ensuring fidelity of chromosome distribution*  
**Kent Golic, Ph.D.**  
*Chromosome structure and function in Drosophila*  
**Scott Hawley, Ph.D.**  
*Control of meiotic chromosome behavior in Drosophila*  
**Linheng Li, Ph.D.**  
*Regulatory networks in hematopoietic stem cell development*  
**Olivier Pourquié, Ph.D.**  
*Regulation and timing of vertebrate segmentation*  
**Paul Trainor, Ph.D.**  
*Tissue interactions regulating cranial and facial development*  
**Ting Xie, Ph.D.**  
*Molecular regulation of germline stem cells in Drosophila and mouse*  
**Arcady Mushegian, Ph.D.**  
*Computational analysis of genes and proteins*  
**Brian Sauer, Ph.D.**  
*Biochemical genetics of the Cre/lox system; gene targeting in mice*

More information may be found at:

**www.stowers-institute.org**

*The Stowers Institute is committed to equal opportunity in all its programs.*

## POSITIONS OPEN

### TWO TENURE-TRACK POSITIONS MOLECULAR TOXICOLOGIST AND POPULATION GENETICIST University of Alaska Anchorage

The University of Alaska Anchorage invites applications for two tenure-track faculty positions in the Department of Biological Sciences. All candidates are expected to establish a strong research program, seek external funding, and contribute to undergraduate and/or graduate education.

(1) Molecular toxicology/toxicogenomics, PCN Number 308536: The Department of Biological Sciences seeks a Molecular Biologist who works on the mechanisms of action of contaminant molecules, ideally at the level of genomics and/or proteomics. A focus on contaminants that might impact the safety of subsistence foods in Alaska is of particular interest. Alaska BRIN (Biomedical Research Infrastructure Network) will provide some start-up funds for this position. Candidates must have a Ph.D. in biology or relevant scientific field. Applicants at the **ASSISTANT PROFESSOR** level must have at least two years of postdoctoral experience and at least one first-author publication in a refereed journal. Applicants at the **ASSOCIATE** level must have an externally funded research program and a substantial publication record (Search Chair: Dr. J.E. Krebs; e-mail: [afjek@uaa.alaska.edu](mailto:afjek@uaa.alaska.edu)).

(2) Population Geneticist, PCN Number 300320: The Department of Biological Sciences seeks a Population Geneticist at the **ASSISTANT PROFESSOR** level. Candidates must have a Ph.D. in biology or relevant scientific field, postdoctoral experience, and at least one first-author publication in a refereed journal. Teaching expertise in population genetics and biometry or evolution preferred (Search Chair: Dr. F. von Hippel; e-mail: [affvh@uaa.alaska.edu](mailto:affvh@uaa.alaska.edu)).

Candidates should submit the following: a cover letter referencing the PCN Number, curriculum vitae including publication list, a statement of research experience and future interests, a statement of teaching experience and philosophy, and the names and contact information for three references. Submit materials to: UAA Human Resource Services, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, AK 99508.

Review of applications will begin April 3, 2002, and will continue until the positions are filled. Applicants may contact Search Chair with questions. Detailed position announcements can be found at website: <http://www.finsys.uaa.alaska.edu/uaahrs/>.

UAA is an Affirmative Action/Equal Opportunity Employer and Education Institution. Women and minorities are especially encouraged to apply. Must be eligible for employment under the Immigration Reform and Control Act of 1986.

### FACULTY POSITION IN PHARMACOLOGY East Tennessee State University

The Department of Pharmacology invites application for a **TENURE-TRACK POSITION**. We are seeking candidates with an established research program in the area of cardiac/smooth muscle electrophysiology and/or signaling mechanisms to complement ongoing NIH-funded research in neural regulation of cardiovascular function. Consideration would also be given to outstanding applicants with other closely related areas of research. Appointment would be made at a rank commensurate with qualifications. Applicants must have a Ph.D. and/or M.D.; at least two years of postdoctoral training; and a research program that is funded at the national level (NIH, AHA, etc.). Additional responsibilities will include teaching medical and graduate students. Applicants should submit their curriculum vitae, a letter describing their research program and goals, and names and addresses of three references to: Donald B. Hoover, Ph.D., Department of Pharmacology, James H. Quillen College of Medicine, East Tennessee State University, Box 70577, Johnson City, TN 37614-1708. East Tennessee State University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



### DEPARTMENT OF AGRICULTURE (USDA) Agricultural Research Service (ARS)

The Agricultural Research Service, Beltsville, Maryland, is seeking applications for two permanent **RESEARCH SCIENTIST** positions in the Food Technology and Safety Laboratory, Microbiologist (Announcement Number ARS-X2E-2163A) and Research Food Technologist/Microbiologist (Announcement Number ARS-X2E-2165A). Grades GS-12/13. The mission of the laboratory is to conduct basic and applied research on beef, pork, lamb, poultry, and other animal products to enhance their quality and safety and to develop technology for evaluating, maintaining, and improving the safety and quality of meat and meat products.

Applications must be submitted by the closing date of announcement, May 6, 2002. For information on procedures, copy of full vacancy announcement, and/or forms, Telephone: 301-504-1369 or view full announcements on Internet under website: <http://www.afm.ars.usda.gov/divisions/hrd/index.html>.

ARS is an Equal Opportunity Provider and Employer. U.S. citizenship required.

### POSTDOCTORAL FELLOW POSITION Cellular Preservation

The Department of Anatomy, Physiology, and Pharmacology, College of Veterinary Medicine, Auburn University, invites applications for a Postdoctoral Fellow research position that is now available in an established research program focused on the preservation of microorganisms in water-soluble polymers.

Candidates should have a Ph.D. in life science with strong expertise in molecular techniques being preferred.

Review of applications will begin February 20, 2002, and continue until a candidate is selected and recommended for appointment. Qualified candidates should submit a letter of interest, curriculum vitae, and names and addresses of three references to:

Vitaly Vodyanoy  
Anatomy, Physiology, and Pharmacology  
College of Veterinary Medicine  
Auburn University, AL 36849  
Telephone: 334-844-5405  
FAX: 334-844-5388  
E-mail: [vodyavi@vetmed.auburn.edu](mailto:vodyavi@vetmed.auburn.edu)

Auburn University is an Affirmative Action/Equal Opportunity Employer.

### CHEMOPREVENTION FACULTY POSITION Dartmouth Medical School

The Department of Pharmacology and Toxicology seeks candidates for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** faculty position. Candidates should have a Ph.D. and/or M.D. degree(s) and an outstanding academic record. We are interested in candidates with an exciting research program in all areas of chemoprevention (such as neurodegenerative or neoplastic diseases). The successful candidate will join a department with broad expertise in cellular and molecular pharmacology and toxicology (website: <http://www.dartmouth.edu/dms/pharmtox/>) along with strong ties to the Norris Cotton Cancer Center, an NCI-funded comprehensive cancer center. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, a record of grant support, and names of at least three references to: Chair of the Search Committee, Dr. Michael B. Sporn, Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755. Dartmouth, an Equal Opportunity and Affirmative Action Employer, strongly encourages applications from women and minority candidates.

## POSITIONS OPEN

**SENIOR RESEARCH SCIENTISTS.** Job duties include (in Biophysics Research Institute): Determine neuronal circuitry of cocaine-induced craving in the human brain from four-dimensional functional MRI (fMRI) data sets. Determine preclinical risk marker for Alzheimer's disease from mildly cognitive-impaired subjects. Develop and/or implement signal/image processing strategies for fMRI studies, especially on the spontaneous low frequency analysis. Independently develop computer programs for applying statistical methods to elucidate mechanisms of fMRI signals. Minimum requirements: Ph.D. in signal processing plus two years of experience in job offered or in medical image processing. Forty hours per week; 8:30 a.m. to 5p.m. Applicants must have proof of present legal authority to work in the United States on a full-time basis. Applicants should contact the Employment Office, SRS0203, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226. FAX: 414-456-6502; call our Jobline at Telephone: 414-456-6502; e-mail: [mcw\\_emp@mcw.edu](mailto:mcw_emp@mcw.edu); website: <http://www.mcw.edu/hr>. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

### FACULTY POSITIONS PHARMACOLOGY AND TOXICOLOGY Dartmouth Medical School

The Department of Pharmacology and Toxicology seeks candidates for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** faculty positions. Candidates should have a Ph.D. and/or M.D. degree(s) and an outstanding academic record. The Department consists of faculty with broad expertise in cellular and molecular pharmacology and toxicology (website: <http://www.dartmouth.edu/dms/pharmtox/>) along with strong ties to the Norris Cotton Cancer Center, an NCI-funded comprehensive cancer center. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, a record of grant support, and names of at least three references to: Chair of the Search Committee, Dr. Alan Eastman, Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755-3835. Dartmouth, an Equal Opportunity and Affirmative Action Employer, strongly encourages applications from women and minority candidates.

**Four RESEARCH ASSOCIATE POSITIONS** available immediately in Dr. Miguel Nicolelis' laboratory (see website: <http://www.nicolelislab.net>) within the newly established Duke University Center for Neuroengineering. All positions require experience in cortical-electrophysiology in behaving primates. Excellent salary (commensurate with qualifications) and generous Duke University benefits (website: <http://www.hr.duke.edu/benefits/index.html>). Send curriculum vitae, description of research accomplishments, and three professional references to: Ms. Susan A. Halkiotis, Center for Neuroengineering, Department of Neurobiology, Box 3209, Duke Medical Center, Durham, NC 27710. Telephone: 919-668-6031; e-mail: [halkiotis@neuro.duke.edu](mailto:halkiotis@neuro.duke.edu) or [nicoleli@neuro.duke.edu](mailto:nicoleli@neuro.duke.edu). Duke University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL RESEARCH FELLOW-SHIP.** A Postdoctoral position is available for candidates who have a strong background in molecular biology, cellular immunology, virology, or protein chemistry and have obtained a Ph.D. and/or M.D. The research undertaken involves the viral and immunologic features of HIV pathogenesis. The position is in the laboratory for tumor and AIDS virus research at the University of California, San Francisco. The candidate must meet the NIH qualifications for Fellowships (a citizen or permanent resident of the United States). Interested candidates should send curriculum vitae and the names of three references to: Dr. Jay A. Levy, M.D., University of California San Francisco, 513 Parnassus, Box 1270, San Francisco, CA 94143-1270. E-mail: [levylab@itsa.ucsf.edu](mailto:levylab@itsa.ucsf.edu).



NIDCD

**National Institutes of Health  
National Institute on Deafness and  
Other Communication Disorders  
Laboratory of Molecular Genetics  
Section on Systems Biology of  
Communication Disorders**

**Tenure Track Position**

We are seeking an experienced geneticist with an active research program devoted to the mapping and identification of genes involved in human speech and language impairment and their underlying functions in the nervous system. The NIDCD offers an excellent working environment including a well-equipped laboratory and a community of scholars (<http://www.nidcd.nih.gov/intram/basic.htm>). Candidates for this position must have a Ph.D. and/or M.D., comprehensive advanced training, an outstanding publication record of peer-reviewed papers and evidence of the ability to conceive and conduct an independent research program. Salary, resources and personnel support will be commensurate with education and experience. US citizenship or permanent residency required. The successful candidate is expected to maintain a program of independent research that is pertinent to the goals of the Section. Please send an application including a detailed curriculum vitae, recent reprints, a statement of research interests, long term research goals and three letters of recommendation by April 30, 2002 to:

**Ms. Gayle Mundell, Personnel Management Specialist  
National Institute on Deafness and Other Communication Disorders  
31 Center Drive, MSC 2320  
Bethesda, Maryland 20892-2320**

Further information may be obtained by contacting **Ms. Mundell** at (301) 402-0508, TDD (301) 402-1562 or by e-mail at [mundellg@nidcd.nih.gov](mailto:mundellg@nidcd.nih.gov)

*NIH is an Equal Opportunity Employer.*



**PROGRAM OFFICER, MARINE MAMMAL  
SCIENCE AND TECHNOLOGY**

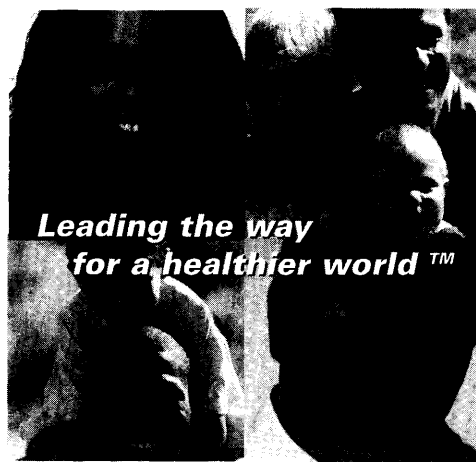
(Geographer, Biologist, Fishery Biologist, Physicist, or Computer Scientist)

The Office of Naval Research is seeking a qualified individual to plan and manage sponsored basic/applied research, and advanced development programs and projects in the broad areas of marine mammal biology and marine ecosystem dynamics, with particular emphases on issues associated with the biology and ecology of marine mammals and other marine organisms, ecosystem modeling, acoustic oceanography, biosonar, hydrodynamics and physiology; as well as the application of information technologies to ecosystem modeling (e.g. GIS), geographic remote sensing technologies, underwater acoustics and the biological effects of sound, biosonar and acoustic signal processing, swimming hydrodynamics and energetics, and immune system function, genetics and stress diagnostics.

This is a Federal Civil Service position at the 13/14/15 level (\$66,229 - \$119,682), depending on individual qualifications. This position may be filled under the Intergovernmental Personnel Act (IPA).

For information on qualifications and how to apply, see Announcement **#DE-ONR-02-0215-NR** (for both Federal and non-Federal applicants) at our website <http://www.onr.navy.mil/hr>. Applications must be in the Human Resources Service Center Office by close of business 31 May 2002 or postmarked as of that date. For technical information contact Dr. Robert Gisiner at (703) 696-2085 or by e-mail at [gisiner@onr.navy.mil](mailto:gisiner@onr.navy.mil).

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One important accomplishment leads to another at **Wyeth Research**. As we develop groundbreaking treatments and vaccines to make the quality of life better for millions, we're pleased to think of how our work affects the lives of individuals. Our world-class pipeline is supported by the superior research and development that is critical to introducing the most effective pharmaceuticals. Rest assured that if you establish a career with our organization, you can help others to rest a lot easier. Join our team in Cambridge.

**POSTDOCTORAL FELLOWSHIP**

The departments of Molecular Medicine and Experimental Medicine at Wyeth are establishing a joint fellowship training program, which will combine pharmacogenomic studies with clinical investigation in drug development. The main focus of the proposed training program is to utilize expression profiling and proteomic technologies to understand disease pathophysiology and the mechanism of drug action at the molecular level. The research program will include preclinical studies in animal models and cell culture and the application of molecular markers identified in those studies to target discovery proof of concept clinical trials in either normal volunteers or patients. The goals of the research program would include the identification of surrogate drug activity and disease markers, dose response measured on a molecular/genomic level, identification of uniquely responsive patients and understanding of drug toxicities. At the end of the training program the successful candidate will understand the application of pharmacogenomics and bioinformatics technologies to phase 1/2 clinical investigation. Recent MDs, MD/PHDs and PHDs with a background in molecular and cellular biology are encouraged to apply for these training positions. Knowledge of bioinformatics and data analysis tools is highly desired. **Interested individuals should forward their resume to: Dr. Ullrich Schwertschlag, E-mail: [uschwert@genetics.com](mailto:uschwert@genetics.com) referencing Source Code: GEN02889346.**

**POSTDOCTORAL FUNCTIONAL GENOMICS**

As a key member of the Functional Genomics group, you will use multidisciplinary approaches to study gene and protein functions with applications to bone biology. Ongoing interests include: use of gene knock-down methodologies to study osteogenesis; investigations of signal transduction pathways using *Xenopus* oocytes; and the study of genetically-modified and naturally occurring mouse mutants to understand bone biology. The highly motivated individual we seek will possess a Ph.D. with a minimum of 2 years postdoctoral experience in cell, molecular or developmental biology, biochemistry, or related field. Strong verbal and written communication skills are required. **Interested individuals should contact Nina Grinley, E-mail: [ngrinley@genetics.com](mailto:ngrinley@genetics.com) referencing Source Code: GEN0010603.**

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## POSITIONS OPEN

### POSTDOCTORAL POSITIONS AVAILABLE

Harbor Branch Oceanographic Institution, Division of Biomedical Marine Research, in Fort Pierce, Florida, has three Postdoctoral positions available in the fields of marine natural products chemistry, molecular biology of natural products biosynthetic pathways, and biochemical/immunochemical target identification. Successful applicants will work in a multidisciplinary environment focused on the investigation of cancer chemotherapeutic agents derived from marine organisms. Additional details can be found on the HBOI website: <http://www.hboi.edu>. Send application, curriculum vitae, transcripts, list of publications, and names of three references to: **Ms. Pauline Crahan, Personnel Services, Harbor Branch Oceanographic Institution, Inc., 5600 U.S. 1 North, Ft. Pierce, FL 34946.** Equal Employment Opportunity/Affirmative Action/DFW.

**POSTDOCTORAL/RESEARCH ASSOCIATE** positions are available in the Division of Bone and Mineral Diseases at Washington University. Individuals with strong backgrounds in either molecular biology, biochemistry, or cell biology will be responsible for projects related to the effects of estrogen on osteoclastogenic cytokines, osteoclast differentiation, and the interactions between the immune system and bone. Significant opportunities also exist for developing skills in the use of *in vivo* models. Opportunities exist for interactions with other members of the division and outside collaborators as well as for participation on a number of projects within the laboratory. Attractive salary and benefit packages available. For information, contact:

**Roberto Pacifici, M.D.**  
Shoenberg Professor of Medicine  
Division of Bone and Mineral Diseases  
216 South Kingshighway  
St. Louis, MO 63110  
Telephone: 314-454-8407  
FAX: 314-454-5047  
E-mail: [pacifici@im.wustl.edu](mailto:pacifici@im.wustl.edu)

Training opportunity at Harvard Medical School: Ph.D. candidates, Postdoctorals, and M.D.s encouraged to apply for **PRE- AND POSTDOCTORAL RESEARCH TRAINING FELLOWSHIP** positions in the NIH-supported training program in sleep, circadian, and respiratory neurobiology at Harvard Medical School and affiliated institutions. Applications deadline for 2002 appointments is April 15, 2002, including required recommendation letters. Program description, requirements, applications, and contact information available online at website: <http://www.hms.harvard.edu/sleep> under Education and Training. Questions at Telephone: 617-732-4154. Women and minority applicants encouraged.

### ASSISTANT/ASSOCIATE PROFESSOR FISHERIES, DEPARTMENT OF ENERGY

Department: Fisheries Division, University of Alaska Fairbanks. PCN 240808. Requisition number FJ24080801. Grade and salary: DOE. Closing date: May 17, 2002. Job status: Tenure-track, full-time faculty. Nine-month appointment with additional three months contingent on extramural funding. For a full and complete job description and application instructions, please go to website: <http://www.uaf.edu/uafhr/jobs/index.html> or contact: Milo Addison; Telephone: 907-465-6251; e-mail: [fisheries@uaf.edu](mailto:fisheries@uaf.edu).

### POSTDOCTORAL FELLOWSHIPS Apoptosis Research

Stanford University seeking motivated Researchers with experience in molecular and cellular biology to work on (1) 53BP2, a protein which interacts with p53 and Bcl2 (MCB 20:8018, 2000) or (2) novel chemotherapy drug resistance genes identified by screening cDNA libraries. Send curriculum vitae and three references to e-mail: [naumovsk@stanford.edu](mailto:naumovsk@stanford.edu).

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH POSITIONS Immunology and Viral Pathogenesis The Institute of Human Virology

Postdoctoral positions (Ph.D. and/or M.D. degree) are immediately available at the Institute of Human Virology, Baltimore, Maryland. One position will study gamma delta T cells and innate immunity to understand the molecular basis for  $\gamma\delta$  T cell loss after HIV infection and recovery of  $\gamma\delta$  T cells after therapy. This candidate will have a background in immunology and familiarity with molecular biology and biostatistics. A second position will study the HIV Tat protein and its role in disease to understand the effects of Tat on normal cells and to evaluate Tat-specific immune responses in infected and vaccinated individuals. This candidate will have a background in virology and familiarity with immunology. The IHV has programs in diagnosis, treatment, and prevention of viral diseases with special attention on HIV/AIDS. Position title and salary are commensurate with experience.

Send curriculum vitae and names plus contact information for three personal references to: **C. David Pauza, Ph.D., Professor, Institute of Human Virology, Room N546, 725 West Lombard Street, Baltimore, MD 21201.** E-mail: [pauza@umbi.umd.edu](mailto:pauza@umbi.umd.edu).

Two **POSTDOCTORAL POSITIONS** are available to study transcriptional regulation of invasion-promoting genes in endothelial and epithelial tumor cells by growth factors and integrins. Projects focus on analysis of signaling intermediates, gene structure/function, and transcription control mechanisms. Position requires a recent Ph.D. in molecular biology and experience in mammalian cell biology or molecular genetics.

Candidates should send their curriculum vitae, representative publications, a statement of research interests, and the names/addresses of three references to: **Dr. Paul J. Higgins, Center for Cell Biology and Cancer Research, Albany Medical College, MC-165, 47 New Scotland Avenue, Albany, NY 12208.** E-mail: [higginsp@mail.amc.edu](mailto:higginsp@mail.amc.edu).

**POSTDOCTORAL RESEARCH ASSOCIATE.** Two positions available immediately in the cardiovascular unit involving integrative work in molecular biology and physiology to study the role of extracellular matrix proteins in pathogenesis of heart failure. The work will focus on osteopontin and integrin signaling. Highly motivated individuals with experience in biochemistry, molecular biology, physiology, or cell biology will be considered. Submit curriculum vitae to: **Dr. Krishna Singh, Department of Physiology, James H. Quillen College of Medicine, East Tennessee State University, Box 70576, Johnson City, TN 37614.** FAX: 423-439-7189; e-mail: [singhk@etsu.edu](mailto:singhk@etsu.edu). Equal Opportunity Employer/Affirmative Action.

Two **POSTDOCTORAL FELLOW POSITIONS** are available immediately to study (1) regulation of Fas/FasL-mediated apoptosis in cancer cells and (2) role of arachidonic acid metabolism in prostate, lung, and pancreatic cancers. Recent Ph.D.s with experience in biochemistry or molecular biology are encouraged to apply. Send curriculum vitae and three references by May 20, 2002, to: **Dr. Jagat Ghosh, University of Virginia Health System, Division of Hematology/Oncology, Internal Medicine, Box 800747, Charlottesville, VA 22908.** E-mail: [jghosh@virginia.edu](mailto:jghosh@virginia.edu). The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately to study targeted delivery of proteins to the brain and spinal cord. A Ph.D. or M.D. degree and a strong background in biochemistry/cell biology are required. Please send curriculum vitae and two support letters to: **Jonathan W. Francis, Massachusetts General Hospital, Day Neuromuscular Research Laboratory, Building 114, 16th Street, Room 3003, Charlestown, MA 02129.** FAX: 617-726-8543; e-mail: [francis@helix.mgh.harvard.edu](mailto:francis@helix.mgh.harvard.edu).

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS Biochemistry

Parker Hughes Cancer Center is dedicated to eradicating cancer, AIDS, and diseases of the immune system. Several Postdoctoral Research positions are available to study the role of signal transduction pathways involved in the biology of cancer. Projects include (1) biochemical stimuli of cell cycle progression, (2) regulation of signaling pathways in hematopoietic cells, (3) roles of tyrosine kinases in cell cycle arrest, (4) factors predisposing cells to proliferation or apoptosis, and (5) mechanism of apoptosis and regulation in hematopoietic cells. The Department is equipped with state-of-the-art laboratory equipment.

All positions require Ph.D. in biological chemistry, molecular biology, or microbiology. Hands-on experience in biochemistry and/or cell biology and immunocytochemistry is expected as well as documented research results in the form of scientific publications or other kinds of presentations. Computational skills are a plus. Team player attitude is anticipated.

Interested candidates should submit a cover letter, résumé, and publication list to:

**Human Resources Department  
Parker Hughes Institute  
2699 Patton Road  
Roseville, MN 55113  
FAX: 651-697-0745  
E-mail: [humanresources@ih.org](mailto:humanresources@ih.org)**

### POSTDOCTORAL FELLOWSHIPS Molecular Virology

Positions are available to study the molecular biology of Epstein-Barr virus latency and gene expression. Two positions are available: (1) regulation of plasmid maintenance and DNA replication by the interaction of EBNA1 with OriP and the role of telomeric proteins and poly ADP-ribosylation on EBV plasmid maintenance (Deng et al., *Mol. Cell.* 9:2002); and (2) characterization of the B cell signaling and immediate early transcription induction upon viral reactivation from latency (*Mol. Cell. Biol.* 21:476; *J. Virol.* 75:10334). Applicants should send curriculum vitae and the names of three references to: **Paul M. Lieberman, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104-4295.** E-mail: [lieberman@wistar.upenn.edu](mailto:lieberman@wistar.upenn.edu).

### POSTDOCTORAL POSITION

A Postdoctoral position is available immediately. The ideal candidate should have a Ph.D. in molecular biology or related fields. He/She needs to have experience in cell cultures, PCR, RT-PCR, Northern and Western blot analysis, and transfection experiments.

Please send a letter of interest and curriculum vitae to: **Dr. Konstantin Christov, Department of Surgical Oncology, University of Illinois, Chicago, IL 60612.** Telephone: 312-996-5347; FAX: 312-996-9365; e-mail: [christov@uic.edu](mailto:christov@uic.edu).

A **POSTDOCTORAL POSITION** is available immediately at Northwestern University. Research will focus on the regulation and therapeutic modulation of prostate cell adhesion. A Ph.D. degree in a relevant field and strong molecular biology background are required; experience in cell adhesion and/or TGF biology preferred. Please send curriculum vitae and names of three references to: **Raymond Bergan, M.D., Division of Hematology/Oncology;** e-mail: [r-bergan@northwestern.edu](mailto:r-bergan@northwestern.edu).

**POSTDOCTORAL POSITION.** Research into molecular mechanism of the ATP synthase molecular motor in bacterial membranes. NIH-funded position. Contact: **Alan Senior, Biochemistry and Biophysics, Box 712, University of Rochester Medical Center, Rochester, NY 14642.** E-mail: [alan\\_senior@urmc.rochester.edu](mailto:alan_senior@urmc.rochester.edu); website: [http://dbb.urmc.rochester.edu/bcbp/members/faculty/senior\\_alan.html](http://dbb.urmc.rochester.edu/bcbp/members/faculty/senior_alan.html).

## Combining Talents To Expand Our Vision

**G**laxoSmithKline joins together the talented people of Glaxo Wellcome and SmithKline Beecham to create the world's leading research-based pharmaceutical company. We're the market leader in four of the five largest therapeutic categories, with unrivaled global marketing strength and R&D and Manufacturing capabilities supporting a research spend of \$4 billion and sales of \$27.5 billion annually. Best of all, the industry's greatest, most innovative minds are now assembled under one name. If your goal is to change the world with innovative medicines, now is the time to join our respected team.

## Medical Genetics Advisor

In this position, you'll have the opportunity to develop new methods and initiate studies for disease gene discovery and the evaluation of target variability and genetic influences on drug response; while liaising with all functions in genetics research and the various therapeutic areas within GSK. Additionally, you'll evaluate, negotiate, organize and continually maintain international academic collaborations in disease genetics, pharmacogenetics, and genomics. Qualifications include a PhD or MD degree and a minimum of six years of experience in the application of genetics to drug discovery and development. Strong interpersonal, communication, and leadership skills essential as well as the ability to work in a team-oriented environment. Job Code: #13467 & #13992.

*GlaxoSmithKline is dedicated to an innovative workplace and supports you with career-long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please visit our website at [www.gsk.com](http://www.gsk.com), indicating Job Code. Principals only, no agencies please.*

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GlaxoSmithKline



## Hiring Initiative for Countering Bioterrorism



The Countering Bioterrorism Initiative is comprised of a number of essential elements for which the Center for Biologics Evaluation and Research plays an integral role. One such element is the expeditious development and licensing of products to diagnose, treat or prevent outbreaks from exposure to the pathogens that have been identified as bioterrorist agents. These products must be reviewed and approved prior to the large-scale productions necessary to create and maintain a stockpile. Staff must guide the products through the regulatory process, including the manufacturing process, pre-clinical testing, clinical trials, and the licensing and approval process. Experts in these areas are needed to expedite the licensing and approval process for these products. This process is extremely complex and early involvement by staff is crucial to the success of the expedited review process.

CBER also plays an equally important role in expanding research on disease agents such as *Bacillus anthracis*, *Shigella dysenteriae*, *Clostridium botulinum*, *Yersinia pestis* and smallpox that might be intentionally released as weapons of bioterrorism. The results of our research, coupled with other biochemical and microbiological information, are expected to help in the development of rapid diagnostic methods, new or improved antibacterial and antiviral therapies, and new vaccines. Experts in virology, bacteriology, infectious diseases, immunology and molecular biology are needed to develop and support these expanding projects. Monies for start-up research may be available.

Consequently, the Center for Biologics Evaluation and Research is actively soliciting applicants to fill a multitude of positions involved in the regulation and research of blood, vaccines and therapeutics including those against bioterrorism agents. For more information, log onto [www.fda.gov/cber/inside/vacancy.htm](http://www.fda.gov/cber/inside/vacancy.htm) and select Countering Bioterrorism.

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*This Agency provides reasonable accommodations to applicants with disabilities.*

## GRANTS

### Funding Now Available for Research on the ROLE OF MITOCHONDRIAL DYSFUNCTION IN ATAXIA TELANGIECTASIA

- Up to \$75,000 per year
- Early start date possible
- Rapid, 30-day peer review decision process
- Application process not too burdensome

Grants are now available to support efforts aimed at understanding how mitochondrial dysfunction may contribute to some of the cellular phenotypes seen in patients with ataxia-telangiectasia (A-T), as well as efforts focused on identifying therapeutic interventions. The major objectives of new grant awards will be to elucidate the role of the ATM protein in normal mitochondrial functioning and genomic integrity, as well as to determine if mitochondrial dysfunction plays a role in A-T pathology.

Through the efforts of the A-T Children's Project, interested investigators will be able to work in easy collaboration with other labs that have already developed reagents such as ATM knock-out mice, A-T cell lines, monoclonal antibodies and biochemical assays for ATM activity.

Competitive awards will be given to researchers for one- and two-year projects to be funded up to a total direct cost of \$75,000 per year. No administrative overhead or fixed costs are supported.

Scientific excellence, originality and direct relevance to ataxia-telangiectasia are the paramount criteria in award decisions. There is no formal deadline date for the submission of proposals. Decisions are usually made within 30 days after proposals are received and grant periods can begin as early as 15 days after the grants are awarded.

For more information on ataxia-telangiectasia and the grant proposal guidelines, please contact the A-T Children's Project or visit our web site.

668 South Military Trail  
Deerfield Beach, FL 33442  
Web site: [www.atcp.org](http://www.atcp.org)



Phone: (954) 481-6611  
Fax: (954) 725-1153  
Email: [grants@atcp.org](mailto:grants@atcp.org)



## "INTERBREW-BAILLET LATOUR HEALTH PRIZE - 2003"

### Application field :

"Early diagnostic and treatment of psychosis"

### Amount :

The Prize will amount to **one hundred fifty thousand Euros** (150,000EUR).

The Prize is awarded to persons working in the field of scientific research and/or its practical applications. The Prize will recognize the scientific merit of the winner and should assist him or her in the pursuit of his or her work.

Candidates to the Prize may be of Belgian or foreign nationality.

Candidatures must reach the Secretary General of the F.N.R.S., rue d'Egmont 5, BE - 1000 Brussels (Belgium) before **September 16, 2002**. The personality proposing the candidature must provide a memorandum, at least three pages in length and drawn up in English, on the candidate's merits.

### Regulations :

The complete regulations can be obtained from the secretariat of the F.N.R.S., rue d'Egmont 5, BE - 1000 Brussels, tel: +32 (0) 2.504.92.11, fax : +32 (0) 2.504. 92.92, e-mail : [mjsimoen@fnrs.be](mailto:mjsimoen@fnrs.be)

[www.fnrs.be](http://www.fnrs.be)

## AWARDS

### AWARDS

#### THE WADSWORTH FOUNDATION FOR MULTIPLE SCLEROSIS RESEARCH ANNOUNCEMENT OF AWARDS

The Foundation is proud to announce the First Quarter 2002 recipients of Wadsworth Grants for Multiple Sclerosis Research. Investigators will each receive \$100,000 annually for up to three years. The recipients are:

**Suhayl Dhib-Jalbut, M.D.**, Maryland Center for Multiple Sclerosis  
**Bonnie Dittel, Ph.D.**, The Blood Center of S.E. Wisconsin  
**Thomas Forsthuber, M.D., Ph.D.**, Case Western  
**David Hinrichs, Ph.D.**, Oregon Health Sciences University  
**Bernadette Kalman, M.D., Ph.D.**, MCP Hahnemann University  
**Akiko Nishiyama, M.D., Ph.D.**, University of Connecticut  
**Emila Vitale, Ph.D.**, UMDNJ-New Jersey Medical School

The Wadsworth Foundation also announces the First Quarter 2002 recipients of the Young Investigator's Award for Research in Multiple Sclerosis. The purpose of this award is to support individuals early in their careers, from post-doctoral training to independent faculty status. Each recipient will receive \$75,000 annually for up to three years. Congratulations are extended to the recipients:

**Katerina Akassoglou, Ph.D.**, New York University School of Medicine  
**Nancy Monson, Ph.D.**, UT Southwestern Medical Center  
**Matthew Rasband, Ph.D.**, University of Connecticut Health Center  
**Yang Xu, Ph.D.**, University of California, San Diego

The Wadsworth Foundation supports research in a wide range of biological disciplines, including neuroscience, cell and molecular biology and immunology to move advances in basic science toward therapies and cures for Multiple Sclerosis. Collaborative projects between basic and clinical neuroscientists are welcome as are proposals designed to develop tools to advance their field. The next deadline for letters of intent for these awards is April 1, 2002, followed by July 1, 2002. For further information and details regarding the application process, please visit the Wadsworth Foundation website at [www.wadsworthfoundation.org](http://www.wadsworthfoundation.org).



SPINAL RESEARCH  
... ending the permanence of paralysis

## The International Spinal Research Trust Request for proposals

*Spinal Research* is a grant giving charity (number 281325) based in the U.K. with the sole purpose of funding research aimed at resolving the non or partial functioning of the injured spinal cord.

Continuing our successful strategic approach towards research funding, we now invite applications for project grants that relate specifically to one or both of the following 'vertical' themes identified in our updated Research Strategy (Ramer et al. *Spinal Cord* (2000) 38:449-472; copies available):

- ♦ Guiding extended axonal regrowth and promotion of appropriate functional connections. We are particularly looking for applications that address the roles in regeneration of axon guidance molecules that have been shown to be active during embryonic axon growth.
- ♦ Optimising the function of surviving axonal fibres. The majority of spinal injuries do not transect the cord and leave some axons crossing the lesion. In some injuries these axons have little functional effect: ways of enhancing their function would therefore be important.

Preference will be given to applications that involve studies in the *adult mammalian* spinal cord, or that provide explicit justification for the use of other systems and how the results could be verified and translated. Planned lesioning and assessment methodologies must also be appropriate.

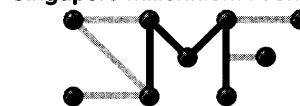
Applicants should submit five copies of a letter of intent (c. two pages) summarising the proposed research and background of the laboratory, plus five copies of an approximate budget and brief curriculum vitae of the Principal Investigator(s) by **20th May 2002**. Faxed or electronic letters will not be accepted.

Awards are based on the level of a post-doctoral salary plus laboratory consumables over three years. Following a preliminary review, detailed proposals will be invited from a limited number of applicants.

Address letters of intent to: ISRT, 8a Bramley Business Centre,  
Station Road, Bramley, Guildford, Surrey GU5 0AZ, U.K.  
Tel: +44 (0)1483 898786 Fax: +44 (0)1483 898763  
E-mail: [research@spinal-research.org](mailto:research@spinal-research.org)

## AWARDS

### Singapore Millennium Foundation



### Scholarships

The Singapore Technologies Group, as part of our commitment towards the community, has set up the Singapore Millennium Foundation (SMF) to award Singapore Millennium Scholarships (SMS) to promote research and development in science and engineering. SMF is a non-profit organisation whose Board will select and award **post graduate scholarships** each year to outstanding researchers.

### Eligibility

Scholarship applicants must first secure their place in a Singapore-based university or research institute in a field of study supported by the Foundation. They are required to approach an established scientist in that institution to support their research project proposal(s) and act as their scientific advisor. The research projects proposed should have high potentials of impacts on R&D in the fields of study. The awards are made based on the quality of research projects proposed by applicants and taking into account their past record of performance in studies/work. All nationalities are welcome to apply.

### Value of Award

Pre-doctoral level: MSc candidate – S\$2,000 per month, PhD candidate – S\$3,000 per month; Post-doctoral level – S\$5,000 per month.

### Fields of Study

Education & Learning; Life Sciences; Engineering & Information Technology; Physical & Material Sciences; Renewable Resources & Water; and Environmental Science.

### Applications

Applications made in response to this solicitation must be submitted by **22 April 2002**. The awards will be announced at the same website by **22 June 2002**.

For details and online applications, please visit our website at:

[www.smf-scholar.org](http://www.smf-scholar.org)

**NEW PATENT RELATED CAREER OPPORTUNITIES FOR  
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PHYSICISTS – MOLECULAR BIOLOGISTS**

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THROUGHOUT THE UNITED STATES, WESTERN EUROPE AND JAPAN**

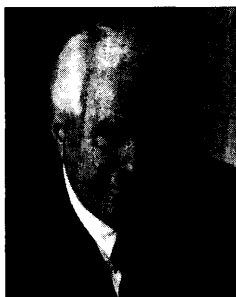
The patent and intellectual property departments of the corporations and law firms below (listed randomly) seek to employ professionals with Bachelors to Doctorates having the appropriate technical or scientific backgrounds, with work experience from none to 30 years or more. Although not all the listed organizations always have openings for such professionals, a changing majority *always* do. Interested professionals should have a basic knowledge of U.S. patent law, *which can be readily acquired in Professor Kayton's Patent Resources Group (PRG) course, as explained below.*

**General Electric – Novartis Corporation – Merck & Co., Inc. – Intel Corporation  
Pitney Bowes Inc. – Eastman Kodak Company – AstraZeneca – Philips Electronics  
Aventis Pharmaceuticals – PPG Industries, Inc. – Akzo Nobel Inc. – Caterpillar Inc.  
American Home Products Corporation**

**Pillsbury Winthrop – Fish & Richardson – Burns, Doane, Swecker & Mathis – Hogan & Hartson  
Robins, Kaplan, Miller & Ciresi – Oblon, Spivak, McClelland, Maier & Neustadt – Cox & Smith  
Foley & Lardner – Welsh & Katz – Finnegan, Henderson, Farabow, Garrett & Dunner  
Birch, Stewart, Kolasch & Birch – Christensen O'Connor Johnson Kindness – Dorsey & Whitney**

You could fill one of the following staff positions (the types vary with the organization), that combines the application of both scientific-technical and patent law knowledge:

- Patent Agent (non-lawyer scientist-engineer) registered to practice patent law before the U.S. Patent Office
- Patent-Technical Paralegal
- Scientific or Engineering Consultant with basic patent law training
- Patent Liaison Professional
- Patent Scientist-Engineer Search Specialist



**Professor Kayton**

The patent law training that is requisite for these staff positions is achieved in *Professor Kayton's* PRG course comprising 44 hours of either live classroom lectures (presented in several cities) or home study video lectures, all based upon, and accompanied by, texts designed *expressly for professionals with no legal background.*

**Each organization listed above has agreed with PRG to reimburse you for your PRG course tuition investment, if you are offered and you accept employment with the organization in a patent law related position.**

Demonstrating that you have basic patent law knowledge is supported by passing a six-hour U.S. Patent Office Exam. Alumni of *Professor Kayton's* PRG course have regularly passed the exam in numbers that far exceed the national average.

After you become one of those successful alumni, you may opt to have PRG forward your resumé for consideration by as many of the listed organizations as you choose. These organizations are willing to review the resúmes of successful alumni who have appropriate scientific or technical backgrounds. Most of the participating organizations now employ *Professor Kayton's* alumni.

*Professor Kayton* proposes to open for you new and exciting professional vistas with richly satisfying rewards, as he did for himself long ago, and as he has done for *many thousands* of scientists and engineers during the past 35 years.

For further details, or to register for the PRG course, or to view a PRG course brochure, visit:

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

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## AWARDS



**DORIS DUKE**  
**CHARITABLE FOUNDATION**

CALL FOR NOMINATIONS

## Clinical Research Grants

### Distinguished Clinical Scientist Award for Excellence in "Bench to Bedside" Research

Awards of \$1.5 million will be made to up to five outstanding physician-scientists conducting "bench to bedside" (translational) clinical research in the following disease areas – cancer, cardiovascular diseases, AIDS and sickle cell anemia and other blood disorders.

Academic medical centers and other non-profit research institutions in the U.S. can nominate one candidate in each of the four different disease areas. Refer to the 2002 DCSA Announcement on our Web site for details on the nomination process. Nomination packages must be received by April 25, 2002. Nominees must have received a MD or MD/PhD from an accredited institution and have a full-time faculty appointment.

The Doris Duke Distinguished Clinical Scientist Award announcement, containing a description of the required nomination package and the submission instructions, can be downloaded from our Web site at <http://ddcf.aibs.org>. Please e-mail questions to [ddcf@aibs.org](mailto:ddcf@aibs.org). No phone calls please.

**Application deadlines:** nomination packages due April 25; proposals due August 21; award begins December 15, 2002.

**WATCH FOR a new award program:** the **Clinical Interfaces Award** will support teams of investigators to link clinical research and multiple basic science disciplines to address challenging questions in human health and disease. Full details will be available on our Web site at <http://ddcf.aibs.org> in spring 2002. Join our list serve to receive notification of the announcement.

### Department of Defense NEUROFIBROMATOSIS (NF) RESEARCH PROGRAM



Research funding available as a result of a  
**\$21 M congressional appropriation**

#### Program Announcement

*Proposals are due in June 2002 for the following awards:*

- ❖ Career Development\*
- ❖ New Investigator
- ❖ Idea
- ❖ Investigator-Initiated Research
- ❖ Therapeutic Development
- ❖ Clinical Trial

The Fiscal Year 2002 Defense Appropriations Act provides \$21 million to the Department of Defense Neurofibromatosis Research Program to support innovative research directed toward decreasing the impact of NF1 and NF2. This program is administered by the U.S. Army Medical Research and Materiel Command through the Office of the Congressionally Directed Medical Research Programs.

#### *\*New this year:*

**Career Development Awards** are intended to encourage established scientists or research clinicians that are currently working in areas other than NF to shift their focus to NF research. These awards will provide investigators that are new to NF research the opportunity to acquire the training, data, and experience to compete for traditional awards.

**JOIN US IN THE FIGHT TO  
DECREASE THE IMPACT OF NEUROFIBROMATOSIS.**

See our website at <http://cdmrp.army.mil>  
or call 301-619-7079 for more information.

### FELLOWSHIPS



#### SANTA FE INSTITUTE International Research Fellowship Opportunities

The Santa Fe Institute (SFI) will award several two-year fellowships to outstanding scholars from academic institutions in Africa, China, Eastern Europe, the Former Soviet Union, India, and Latin America. Participants will be selected based on interest in interdisciplinary research in the physical, biological, computational, or social sciences as they relate to complex adaptive systems. Short-term visits to SFI are included in the Fellowship.

#### Additional information:

[www.santafe.edu/sfi/education/  
international/intlfellows/  
intlfaldescription.html](http://www.santafe.edu/sfi/education/international/intlfellows/intlfaldescription.html)

**Application information:** Cover letter including statement of purpose, current curriculum vitae (CV), two letters of recommendation from scientists who know your work, and completion of our on-line English-language self-evaluation form. Include your email address and fax number.

International Fellowship Program  
Santa Fe Institute  
1399 Hyde Park Road, MS#1  
Santa Fe, New Mexico 87501 USA  
(505) 984-8800 ext. 235 (voice)  
(505) 982-0565 (fax)  
email: [paul@santafe.edu](mailto:paul@santafe.edu)

**Application deadline: July 1, 2002**

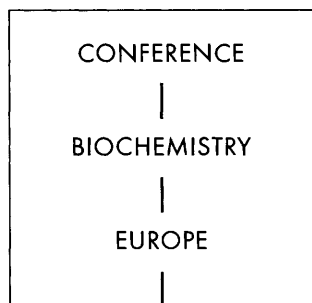
# Research Tools Development Grants Program

## Creating the future of biotech—together

Invitrogen announces the Research Tools Development Grants Program for the discovery, development, and commercialization of innovative tools in life science research. New and established investigators working in academics, not-for-profit institutions, and for-profit companies such as start-up biotech companies are encouraged to apply. Funded at \$5 million per year, annual awards can be up to \$100,000. Grants are provided on a quarterly basis, with each quarter focusing on a specific field of interest.

For the second quarter of 2002 we're funding research in **Functional Analysis**, understanding how genes and their corresponding proteins function and interact *in vitro* and *in vivo*. This includes expression, identification, interactions, localization, modifications, and activities, as well as bioinformatics and microarray projects. Deadline for full Grant Proposals is June 1. Future topics for 2002 are separations and purification (deadline September 1) and amplification, labeling, and quantitation (deadline December 1). Please submit a preproposal prior to a full Grant Proposal. Visit [www.invitrogen.com](http://www.invitrogen.com) for more information, or contact us at [grants@invitrogen.com](mailto:grants@invitrogen.com) or at 800 955 6288, ext. 66140 (760 476 6140).

1600 Faraday Ave. Carlsbad, CA 92008 P: 760 476 6140 F: 760 602 6563 [www.invitrogen.com](http://www.invitrogen.com)



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## Department of Defense BREAST CANCER RESEARCH PROGRAM



Research funding available as a result of a  
\$150 M congressional appropriation

### Program Announcement

*Proposals are due June 2002 for the following awards:*

- ◆ Innovator ◆ Idea ◆ Exploration\*
- ◆ Predoctoral and Postdoctoral Traineeship
- ◆ Clinical Research Nurse Training\* ◆ Physician-Scientist Training\*
- ◆ Undergraduate Summer Training

The Fiscal Year 2002 Defense Appropriations Act provides \$150 million to the Department of Defense Breast Cancer Research Program to support innovative research directed toward the eradication of breast cancer. This program is administered by the U.S. Army Medical Research and Materiel Command through the Office of the Congressionally Directed Medical Research Programs.

**\*New this year: Exploration Awards** fund an initial innovative concept or theory (with no preliminary data) that could give rise to a testable hypothesis. **Physician-Scientist Training Awards** support the training of new breast cancer clinical research physicians. **Clinical Research Nurse Training Awards** support nurses at all levels focusing on breast cancer research in an interdisciplinary breast cancer research environment.

**JOIN US IN THE FIGHT AGAINST BREAST CANCER.**

See our website at <http://cdmrp.army.mil>  
or call 301-619-7079 for more information.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS NIMH

Two Postdoctoral positions are available for studies on the neuronal basis of behavior in *Drosophila* using recently developed techniques for the conditional, cell-type specific suppression of neuronal activity *in vivo* (White et al., *Curr. Biol.* 11:R1041-R1053, 2001). The positions are available in the Laboratory of Molecular Biology's Unit on Neural Function, which has as its goal developing and exploiting techniques for the suppression of neural activity for the study of behavior. Currently available projects include investigations of the neuronal circuitry underlying early posteclosion behaviors, visual processing, and sleep/wake behaviors.

Fellowships include full salary support for up to five years. Preferred applicants will have a background in neuroscience with prior research experience in genetics, molecular biology, and/or electrophysiology. Experience with fruit flies and/or behavioral assays is also highly desirable.

Applicants are requested to send curriculum vitae; a brief statement of research experience and interests; and the names, telephone numbers, and e-mail addresses of three references to: **Dr. Benjamin White, Unit on Neural Function, Laboratory of Molecular Biology, National Institute of Mental Health, 36 Convent Drive, Building 36, Room 1B08, MSC 4034, Bethesda, MD 20892-4034. E-mail: whiteb@codon.nih.gov.**

**POSTDOCTORAL POSITIONS** are immediately available for research focused on the biological and biochemical functions of tumor suppressor genes and DNA repair machinery. Our recent publications: BRCA2 and RAD51, *PNAS* 95:5287-5292; BRCA1 and RAD50, *Science* 285:747-750; and BRCA1 and ZBRK1, *Molecular Cell* 6:757-768. Training in protein purification, molecular and cell biology, or animal models preferred.

Prospective candidates should forward their curriculum vitae and three references to:

**Dr. Wen-Hwa Lee, Professor/Chair  
Institute of Biotechnology  
15355 Lambda Drive  
San Antonio, TX 78245-3207  
E-mail: leew@utscsa.edu**

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

**POSTDOCTORAL POSITION** in neuroscience is available immediately to study the neuronal mechanisms underlying motor learning and memory in an *in vitro* brain stem-cerebellum preparation. The project will include intracellular recording techniques, immunocytochemistry of glutamate receptor distribution, and molecular approaches. The Neuroscience Group recently obtained a Center of Biomedical Research Excellence award that provides for many opportunities for Postdoctoral Fellows. Information about the Group can be found at **website: <http://www.usd.edu/neurogroup/>**. Interested candidates should send curriculum vitae and names of three references to: **Joyce Keifer, Ph.D., Neuroscience Group, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, 414 East Clark Street, Vermillion, SD 57069-2390. Affirmative Action/Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available in NIH-funded laboratory to study (1) HNF 4-dependent regulation of iNOS gene transcription and/or (2) osteopontin regulation of endotoxin-mediated iNOS expression. Strong background in techniques of molecular biology, protein-protein interactions, and posttranslational modification of proteins is required. Submit curriculum vitae and three letters of reference to: **Paul C. Kuo, M.D., Department of Surgery, Duke University Medical Center, 110 Bell Building, Box 3522, Durham, NC 27710. E-mail: kuo00004@mc.duke.edu.**

## POSITIONS OPEN



### POSTDOCTORAL FELLOW Department of Oncology Rochester, Minnesota, U.S.A.

NIH-funded Postdoctoral positions are available immediately to work in the area of DNA damage-signaling pathways and cancer biology. The laboratory currently focuses on the biochemical and molecular aspects of breast/ovarian cancer and the roles of tumor suppressor genes p53, Chk2, BRCA1/BRCA2, and the DNA damage-signaling pathway in tumorigenesis. The approaches we are using range from mammalian cell culture and molecular biology to mouse and yeast genetics. A strong background in molecular and cellular biology is essential. We are seeking candidates who are self-motivated and career oriented. The research environment at Mayo Clinic is excellent. Prospective applicants are encouraged to contact me by e-mail: **chen.junjie@mayo.edu**.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multicampus environment. For further information, please visit **website: <http://www.mayo.edu/research/>**.

Applications including curriculum vitae and bibliography, summary of past accomplishments, and the names of three references should be sent to:

**Junjie Chen, Ph.D.  
Assistant Professor  
Department of Oncology  
Guggenheim Building, Room 1306  
Mayo Clinic, 200 First Street S.W.  
Rochester, MN 55905  
Telephone: 507-538-1545  
E-mail: chen.junjie@mayo.edu**

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

### POSTDOCTORAL FELLOWSHIPS Oncolytic Viruses/Glioma Invasion

Excellent opportunities for young Scientists are available through funded Postdoctoral positions in: (1) oncolytic viruses (*JNCI* 93:903, 2001; *Science* 282:1332, 1998) and (2) mechanisms of invasion (*Nat. Rev. 2*:502, 2001; *Clin. Cancer Res.* 5:845, 1999) in brain tumors.

Applicants must have a Ph.D., M.D., or equivalent as well as experience in virology, molecular biology, biochemistry, cell biology, or related disciplines. Applications accepted on an ongoing basis. Please submit curriculum vitae, a letter of research interests and goals, and the names of three references to: **Peter Forsyth, Department of Oncology, Tom Baker Cancer Center, 1331 29th Street N.W., Calgary, AB T2N 4N2 Canada. E-mail: peter.forsyth@cancerboard.ab.ca.**

**POSTDOCTORAL POSITION** (two years) available to study population phylogenies and colonization histories using molecular markers and coalescent theory. Candidate will interact with one or more faculty (**Helenurm, Nepokroeff, Britten, Swallow**) studying biogeography and speciation of insular plants (Hawaii and California's Channel Islands) and disjunct animal and plant populations. Ph.D. and experience with coalescent theory and/or molecular techniques such as DNA sequence analysis, AFLPs, ISSRs, and microsatellites required. Submit curriculum vitae, statement of research interests, and names of three references to: **Dr. Kaius Helenurm, Department of Biology, The University of South Dakota, 414 East Clark Street, Vermillion, SD 57069. E-mail: helenurm@usd.edu.** Review of applications begins April 10, 2002, and continues until the position is filled. *Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### DARWIN FELLOW

The Graduate Program in Organismic and Evolutionary Biology at University of Massachusetts Amherst announces a two-year **POSTDOCTORAL RESEARCH/LECTURESHIP**. More than 80 faculty members in 10 campus departments are committed to the study of ecology, organismic, and evolutionary biology, offering unique training and research opportunities for recent Ph.D.s. Our Research/Lecture position allows independent research with a faculty member and experience developing and teaching a one-semester introductory ecology course. Position subject to availability of funds. First-year salary: \$29,000. Second-year salary: \$31,000.

To apply, send curriculum vitae, three letters of reference, statements of research and teaching interests, and letter of support from your proposed UMASS Amherst faculty sponsor. A list of faculty and additional information is available at **website: <http://www.bio.umass.edu/oeb>**.

**OEB Darwin Fellow  
319 Morrill Science Center  
University of Massachusetts Amherst  
Amherst, MA 01003  
Telephone: 413-545-0928  
E-mail: darwin@bio.umass.edu**

Application review begins March 25, 2002. Position remains open until successful candidate is selected. Start date: September 1, 2002.

*The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

### POSTDOCTORAL FELLOWSHIP AVAILABLE

The Dorothy M. Davis Heart and Lung Research Institute at The Ohio State University announces competition for the 2002-2004 Davis Fellowship Award. Fellowship grantees will select a mentor within the DHLRI. Areas of focus include inflammation, macrophage biology, angiogenesis, microvessel function, tissue remodeling, and oxidants. Distinguished applicants must be at postgraduate level (Ph.D. and/or M.D.) pursuing a career in scientific research in cardiovascular or lung diseases. The Fellowship provides a stipend of \$40,000 per year for two years plus a \$2,500 per year educational/travel allowance.

Application: One- to two-page written statement including overview of current research interests and long-range goals and two letters of support (Advisor and current Department Chair). Send written statement and current curriculum vitae to: **Director, Davis Heart and Lung Research Institute, The Ohio State University, 473 West 12th Avenue, Columbus, OH 43210. Deadline: April 30, 2002. Website: <http://heartlung.osu.edu>.**

*The Ohio State University is an Equal Opportunity Employer.*

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

#### Molecular Viral Oncogenesis and New Pathogen Discovery

Position available starting July 2002. Ongoing studies involve viral regulation of cMYC, pRB, apoptotic, and interferon signaling pathways by Kaposi's sarcoma-associated herpes virus (*Science* 266:1865, 1994; *PNAS* 93:1487, 1996) and use of molecular techniques to find unidentified pathogens. Experience in virology, transcriptional regulation, or genomics preferred. The laboratory is located in the University of Pittsburgh Hillman Cancer Center, a newly built, freestanding 350,000-square-foot cancer research and treatment facility. Send curriculum vitae and three references by FAX or mail to: **Patrick S. Moore, M.D., M.P.H. and Yuan Chang, M.D., Molecular Virology Program, c/o Ms. Lorraine Ombres, University of Pittsburgh Cancer Institute, 305 Iroquois, 3600 Forbes Avenue, Pittsburgh, PA 15213. Website: <http://www.upci.upmc.edu/internet/molvirology/kshvlab.html>.**

## **CSC Symposium, London, 27-29 June, 2002**

### **The Dynamic Nucleus: Questions and Implications**

Recent evidence from photobleaching studies suggests that many components of the nucleus including histone H1, high mobility group proteins, transcription factors and splicing factors are highly mobile. The main goal of the meeting will be to promote discussion on the physical parameters that affect nuclear dynamics and the implications for transcriptional regulation, DNA replication and repair, RNA transcription, processing and nuclear transport.

**Organisers:** Niall Dillon and Ana Pombo

**Confirmed speakers:**

Andrew Belmont (USA), Wendy Bickmore (UK), Cristina Cardoso (Germany), Peter Cook (UK), Christoph Cremer (Germany), Niall Dillon (UK), Jan Ellenberg (Germany), Richard Festenstein (UK), Amanda Fisher (UK), Peter Fraser (UK), Susan Gasser (Switzerland), Frank Grosveld (Netherlands), Gordon Hager (USA), Michael Hendzel (Canada), Steven Henikoff (USA), Daniele Hernandez-Verdun (France), Jan Hoeijmakers (Netherlands), Pavel Hozák (Czech Republic), Tom Misteli (USA), Tom Owen-Hughes (UK), Thoru Pederson (USA), Ana Pombo (UK), Markus Sauer (Germany), John Sedat (USA), David Spector (USA), Jean Thomas (UK), Roel van Driel (Netherlands), Daniele Zink (Germany)

Further information and application form can be obtained at <http://www.csc.mrc.ac.uk/DynamicNucleus> or by contacting the organisers at the MRC Clinical Sciences Centre, Faculty of Medicine, Imperial College, Hammersmith Campus, Du Cane Road, London W12 ONN, United Kingdom, email [dynamic.nucleus@csc.mrc.ac.uk](mailto:dynamic.nucleus@csc.mrc.ac.uk), fax +44 (0) 20 8383 3448.

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#### **"GAGNA A. & CH. VAN HECK PRIZE - 2003"**

**Application field :**

The "Gagna A. & Ch. Van Heck Prize" is awarded to a researcher or physician whose work has contributed to the treatment of a currently incurable disease, or has significantly contributed to research into such an outstanding progress.

**Amount :**

The Prize will amount to **seventy-five thousand Euros** (75,000 EUR).

**Nominations :**

This triennial and international Prize, awarded for the first time in 2003, is reserved for a work submitted by one or two researcher(s).

Nominations must be received by the Secretary general of the National Fund for Scientific Research, F.N.R.S., rue d'Egmont 5, BE - 1000 Brussels, Belgium, by **October 1, 2002**.

The personality proposing the nomination must provide a memorandum written in English on the candidate's merits.

**Regulations :**

The complete regulations can be obtained from the secretariat of the F.N.R.S., rue d'Egmont 5, BE - 1000 Brussels, tel: +32 (0) 2.504.92.11, fax: +32 (0) 2.504.92.92, e-mail: [mjsimoen@fnrs.be](mailto:mjsimoen@fnrs.be)

[www.fnrs.be](http://www.fnrs.be)



## POSITIONS OPEN

**POSTDOCTORAL FELLOWSHIPS** in a multidisciplinary laboratory clarifying the molecular and cellular basis of autoimmune disease and graft vs. host disease and using this information to devise therapeutic approaches.

Major interests: (1) the biology of the FcRn IgG protection receptor and other MHC Class I family molecules and their potential as therapeutic targets in autoimmune disease, (2) expression profiling and *in silico* analysis of genes involved in lupus-like autoimmune disease and graft vs. host disease, and (3) the cellular immunology and genomics of graft vs. host disease.

The Jackson Laboratory is the recognized nexus of mammalian genetics and the use of the mouse model to solve important questions in mammalian biology and disease. It has an enormous array of readily accessed ancillary services and resources aimed at providing an optimal training environment. The Laboratory is situated among the scenic splendor of Acadia National Park overlooking the Atlantic Ocean.

Applicants should have or be completing a Ph.D. and/or an M.D. and have strong training in molecular genetics, cellular immunology, biochemistry, and/or pharmacology. Please send curriculum vitae and three references to:

**Derry C. Roopenian, Ph.D.**  
Senior Staff Scientist  
The Jackson Laboratory  
600 Main Street  
Bar Harbor, ME 04609  
Telephone: 207-288-6396  
FAX: 207-288-6079

## POSTDOCTORAL POSITIONS

Postdoctoral positions are immediately available at the Institut Curie aiming at investigating various aspects of the p53 pathway. The successful applicants would join molecular biology/clinical collaborative research teams with excellent facilities housed in the Institut Curie. The positions are funded by an EC grant. Highly motivated individuals with a recent Ph.D. (less than four years) and expertise in protein biochemistry and molecular biology are invited to apply. Send curriculum vitae and three letters of recommendation to: **Pr. Thierry Soussi, EA3493, laboratoire de génotoxicologie des tumeurs, Institut Curie, 26 rue d'Ulm, 75248 Paris cedex 05 - France.** E-mail: [thierry.soussi@curie.fr](mailto:thierry.soussi@curie.fr); website: <http://www.p53.curie.fr>.

## POSTDOCTORAL POSITION Columbia University

A Postdoctoral position is available at Columbia University to study neuronal signaling involved in early stages of cortical development. Methods include patch clamp recording, neuroanatomical methods, calcium imaging in brain slices, and molecular biological approaches. Candidate must have Ph.D., M.D., or equivalent degree. Experience in patch clamp recording is preferred and additional training in molecular biology or calcium imaging is desirable. Send curriculum vitae and names of three references to: **Arnold R. Kriegstein, M.D., Ph.D., Department of Neurology, Columbia University College of Physicians and Surgeons, 630 West 168th Street, Box 31, New York, NY 10032.** Columbia University is an Affirmative Action/Equal Opportunity Employer.

## POSTDOCTORAL POSITION Tumor Immunology

Available immediately to participate in ongoing research projects developing tumor vaccines in preclinical and clinical settings. This research will focus on inducing specific T cell responses to mutated K-ras in both mouse models and in patients. Strong background in immunology with experience in molecular biology and flow cytometry required. Send curriculum vitae and letters of reference to: **Paul B. Chapman, M.D., Department of Medicine, Memorial-Sloan Kettering Cancer Center, New York, NY 10021.** E-mail: [chapman@mskcc.org](mailto:chapman@mskcc.org).

## POSITIONS OPEN

### NIH 2002 = [OPPORTUNITY]<sup>TM</sup>

Train at the bench, the bedside, or both. The NIH offers **POSTDOCTORAL and CLINICAL FELLOWSHIPS** as well as tenure-track positions.

For details, visit our website:  
[www.training.nih.gov](http://www.training.nih.gov)

NIH is dedicated to building a diverse community in its training and employment programs.

## POSTDOCTORAL POSITION

The Division of Infectious Diseases at Case Western Reserve University, University Hospitals of Cleveland, and the Louis Stokes Cleveland Veterans Affairs Medical Center are seeking applicants for the first Wyeth Pharmaceuticals Postdoctoral Research Fellowship in antibiotic resistance. The purpose of this Fellowship is to provide an opportunity for a qualified M.D./Ph.D. to pursue a one- to two-year mentored research experience at our institution. Interested candidates who have completed advanced postgraduate training seeking a postdoctoral experience should send a cover letter outlining their goals, curriculum vitae, and three letters of recommendation to: **Robert A. Salata, M.D., Professor and Vice Chair of Medicine, Chief, Infectious Diseases, University Hospitals of Cleveland, 11100 Euclid Avenue, Cleveland, OH 44106-5083.** E-mail: [ras7@po.cwru.edu](mailto:ras7@po.cwru.edu).

## POSTDOCTORAL POSITION

NIH-funded Postdoctoral position now available to applicant with Ph.D. (or equivalent) for research into novel defenses that prevent neurodegeneration utilizing herpes viral vectors. Projects utilize organotypic hippocampal slices, primary cell culture, and *in vivo* mouse models. Experience in morphological analysis, cell culture, and molecular biology techniques is important. *U.S. citizenship or permanent residency is required.* Interested candidate should submit curriculum vitae, a brief statement summarizing interests, and the names and addresses of three references to: **Dr. Paul Yarowsky, Department of Pharmacology and Experimental Therapeutics, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201.** E-mail: [pyarowsky@som.umaryland.edu](mailto:pyarowsky@som.umaryland.edu). An Equal Opportunity Employer.

## POSTDOCTORAL POSITION Molecular Biology

A Postdoctoral position is available immediately to participate in the ongoing projects dissecting the cellular and molecular biology of hepatocyte growth factor (HGF) and its receptor (See *Molecular Cell* 9:411-422, 2002; *JBC* 276:25049-25056, 2001). Applicant must have a strong background and hands-on experience in molecular and cellular biology as well as generation of knockout and transgenic mice models. Send curriculum vitae and the names of three references to: **Dr. Reza Zarnegar, Department of Pathology, Room S411, Biomedical Science Tower, University of Pittsburgh, School of Medicine, Pittsburgh, PA 15261.** Telephone: 412-648-8657; FAX: 412-648-1916; e-mail: [rezazar@pitt.edu](mailto:rezazar@pitt.edu).

**POSTDOCTORAL POSITION** to study cardiac muscle gene expression, apoptosis, and intracellular signaling events involved in various forms of heart disease. We use transgenic and gene-targeted mouse models as well as molecular approaches in cell-based systems. E-mail your curriculum vitae to: **Jeffery D. Molkentin, Ph.D., Children's Hospital, 3333 Burnet Avenue (MLC 7020), Cincinnati, OH 45229 U.S.A.** E-mail: [jeff.molkentin@chmcc.org](mailto:jeff.molkentin@chmcc.org). Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE Ocular-Pharmacology Program

Applications are invited for a Postdoctoral Research Associate to work with a multidisciplinary research group in the area of ocular pharmacology. A Ph.D. in pharmacology, cell or molecular biology, biophysics, chemistry, or biomedical engineering is preferable. This is a multidisciplinary program between basic and clinical laboratories at Duke University and Duke University Medical Center. The Postdoctoral Associate will work jointly in laboratories in the medical school and Duke University. We can provide a stimulating academic and research environment for the right Postdoctoral Research Associate. Current members of the program include **Drs. Sanjay Asrani, Alan Carlson, David L. Epstein, Mark Grinstaff, Glenn Jaffe, Terry Kim, Fulton Wong, and Fan Yuan.**

To apply, please send curriculum vitae and the names of three professional references to: **Dr. Mark W. Grinstaff, Assistant Professor of Chemistry, Ophthalmology, and Biomedical Engineering, Paul M. Gross Chemical Laboratory, Box 90346, Duke University, Durham, NC 27708.** E-mail: [mwg@chem.duke.edu](mailto:mwg@chem.duke.edu); website: <http://www.chem.duke.edu/~mwg/>. Duke University is an Affirmative Action/Equal Opportunity Employer.

## POSTDOCTORAL RESEARCHERS University of Massachusetts Dartmouth

One nonbenefited position to work on isolation and characterization of proteins. Additional one to two benefited positions to work on isolation and characterization of proteins (biochemical and spectroscopic) and nucleic acids (site-directed mutagenesis and protein expression). Ph.D. in chemistry, biochemistry, or biological sciences with previous experience in isolation and characterization of proteins and nucleic acids and good communication skills required. Prefer hands-on experience with biochemical techniques. Submit résumé and list of references to: **Dr. Bal Ram Singh, Department of Chemistry and Biochemistry, University of Massachusetts Dartmouth, 285 Old Westport Road, North Dartmouth, MA 02747.** Telephone: 508-999-8588; e-mail: [bsingh@umassd.edu](mailto:bsingh@umassd.edu). Review of applications will begin two weeks after ad appears and will continue until positions are filled. UMD is an Affirmative Action/Equal Employment Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study genetic and molecular pathways of skeletal development. Ph.D. degree in molecular/cellular biology, genetics, or related discipline and expertise in modern molecular and cell biology methods are required. Individuals with an academic career goal and excellent communication skills are preferred. Experience in murine developmental biology, skeletal physiology, and/or gene transfer is desirable. Salary is competitive and commensurate with experience. Please send your curriculum vitae, summary of research experience, and the names and contact information for three references to: **Robert F. Klein, M.D., Bone and Mineral Unit (CR113), Oregon Health and Science University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098.** E-mail: [kleinro@ohsu.edu](mailto:kleinro@ohsu.edu).

## CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

The New England College of Optometry offers a unique program for those with a Doctorate in the sciences: biology, chemistry, physics, psychology, etc. Candidates have the opportunity to obtain the Doctor of Optometry (O.D.) degree in 27 months. The program begins annually in June. Employment opportunities exist in clinical practice, industry, optometric faculty positions, and research. Contact: **Admissions Office, Department S, 424 Beacon Street, Boston, MA 02115.** Telephone: 1-800-824-5526; e-mail: [admissio@ne-optometry.edu](mailto:admissio@ne-optometry.edu); website: <http://www.ne-optometry.edu>. Application deadline: March 1, 2002.

## POSITIONS OPEN

### MOLECULAR BIOLOGY POSTDOCTORAL POSITIONS

Parker Hughes Institute, dedicated to eradicating cancer, AIDS, and diseases of the immune system, is seeking several Postdoctoral Fellows in the fields of molecular biology and molecular genetics. The overall goal of the Molecular Biology Department is the identification of important biological features of cancer and other diseased cells that may be used for developing novel therapies. The Department is equipped with state-of-the-art laboratory equipment including an Affymetrix Gene Chip® system, automated sequences, thermocyclers, spectrophotometers, etc. There is also potential for collaborative interaction with bioinformatics, biochemistry, and biology departments.

All positions require Ph.D. in molecular biology, molecular genetics, microbiology, or biological chemistry. Hands-on experience in molecular biology is expected as well as documented research results in the form of scientific publications or other kinds of presentations. Experience with RNA isolation and expression is a plus as are strong computational skills. Team player attitude is anticipated.

Interested candidates should submit a cover letter, résumé, and publication list to:

**Human Resource Department**  
**Parker Hughes Institute**  
2699 Patton Road  
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FAX: 651-796-5480  
E-mail: [humanresources@ih.org](mailto:humanresources@ih.org)

**POSTDOCTORAL RESEARCH POSITIONS**, University of Wisconsin—Madison, Medical School Psychiatry Department. Two Postdoctoral positions available in Dr. Ned Kalin's laboratory. Doctoral degree required with emphasis in neuropharmacology, behavioral neuroscience, and/or molecular neuroscience. Requires strong oral and written communication skills. This individual will assist in investigating the mechanisms underlying behavioral and biochemical changes associated with stress, fear, and anxiety. The laboratory is especially interested in the underlying neural circuitry of molecular mechanisms. Salary range begins at \$31,092. Please send a letter of interest along with your curriculum vitae to: **Dr. Ned Kalin, UW Department of Psychiatry, 6001 Research Park Boulevard, Madison, WI 53719.** *Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

### SENIOR POSTDOCTORAL POSITION AVAILABLE AT SLOAN-KETTERING INSTITUTE

Seeking Research Scientists with several years of postdoctoral experience who wish to assume a supervisory role in a laboratory focused on defining the molecular events underlying normal and malignant hematopoiesis. Applicants should have considerable expertise in the creation and analysis of knockout or transgenic mice, in *in vitro* assays of hematopoietic stem cells, or in the study of protein-protein interactions or cell cycle regulation. Send a description of your research interests, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.** *Memorial Sloan-Kettering is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available immediately in a laboratory studying the molecular mechanisms of anesthetic action. Experience in molecular biology, immunology, and/or electrophysiology preferred. *Must be a U.S. citizen or have permanent resident status.* Please send curriculum vitae and the names of three references to: **C. Spencer Yost, M.D., Department of Anesthesia and Perioperative Care, Room S-261, Box 0542, University of California, San Francisco, CA 94143.** E-mail: [spyost@itsa.ucsf.edu](mailto:spyost@itsa.ucsf.edu).

## POSITIONS OPEN

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

#### Liver Stellate Cell Biology

Position available starting in July 2002. Ongoing studies involving the role of leptin in stellate cell signal transduction, retinoid metabolism, and gene regulation as it relates to transdifferentiation of stellate cells (*Biochem. Biophys. Res. Comm.* **244**:178, 1998) and liver fibrosis (see *Hepatology* **35**(4):2002).

Experience with liver perfusion, bile-duct ligation of rodents a plus. The laboratory is located at the University of Maryland Liver Center in which a state-of-the-art liver cell biology laboratory has been established. Opportunities to interact with other American Investigator's laboratories in this field will be available on campus and nationally. Send curriculum vitae and three references by FAX, e-mail, or surface mail to: **Frank A. Anania, M.D. and Neeraj K. Saxena, Ph.D., University of Maryland Liver Center, Room N3W50, 22 South Greene Street, Baltimore, MD 21201 U.S.A. FAX: 410-328-1897; e-mail: [fanania@medicine.umaryland.edu](mailto:fanania@medicine.umaryland.edu) or [nsaxena@medicine.umaryland.edu](mailto:nsaxena@medicine.umaryland.edu).**

### POSTDOCTORAL POSITION Autoimmunity/Apoptosis University of Washington Division of Rheumatology

Research involves genetic and molecular investigation of cell death and survival pathways to understand mechanisms of autoimmunity. Applicants should hold an M.D. and/or Ph.D. Letter of interest, curriculum vitae, and contact information for three references should be sent to: **Keith Elkon, M.D., Professor of Medicine and Head, Division of Rheumatology, Box 556428, University of Washington, Seattle, WA 98195.** E-mail: [elkon@u.washington.edu](mailto:elkon@u.washington.edu). *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.*

**RESEARCH ASSOCIATE/POSTDOCTORAL** position is immediately available to study the contribution of cell-intrinsic factors to adult nervous system regeneration. We are currently investigating the ability of enhanced integrin expression to stimulate regeneration of adult neurons in animals. We are looking for an individual with experience in the design and construction of adenovirus and/or AAV who is interested in applying these reagents to study of development and regeneration in the central nervous system. Salary and benefits for this position are highly competitive. Please send a brief statement of prior research experience, curriculum vitae, and a list of three references to: **M.L. Condic, Ph.D., Neurobiology and Anatomy, University of Utah School of Medicine, 401 MREB, 20 North, 1900 East, Salt Lake City, UT 84132-3401.** E-mail: [maureen.condic@hsc.utah.edu](mailto:maureen.condic@hsc.utah.edu).

Two **POSTDOCTORAL POSITIONS** immediately available to study mechanisms involved in diabetic complications and kidney embryonic development in experimental models. The potential candidates must have a good cell and molecular biology background. Please send curriculum vitae and three references to: **Y.S. Kanwar, M.D., Ph.D., Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611.** E-mail: [y-kanwar@northwestern.edu](mailto:y-kanwar@northwestern.edu).

We are looking for a **POSTDOCTORAL FELLOW** to work on an NIH-funded research project to develop a cell culture model for HCV 1a to study the mechanisms of virus replication and assembly. Send curriculum vitae and three letters of reference to: **Srikanta Dash, Ph.D., Department of Pathology and Laboratory Medicine, Tulane Medical School, 1430 Tulane Avenue, New Orleans, LA 70112-2699.** FAX: 504-587-7389; e-mail [sdash@tulane.edu](mailto:sdash@tulane.edu).

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS CARNEGIE MELLON UNIVERSITY Energy Technology and Policy

Postdoctoral positions available in Department of Engineering and Public Policy at Carnegie Mellon working at the technology/policy interface on CO<sub>2</sub> capture and sequestration and on environmental and economic challenges in electricity supply. Candidates for the CO<sub>2</sub> capture work need a strong science or engineering background, e.g., physics, geosciences, or chemical engineering.

See website: <http://www.epp.cmu.edu/openings>.

## GLOBAL OPPORTUNITIES



### RESEARCH ASSOCIATE

Applications are invited for the position of research associate (Ph.D.) in the Pediatric Oncology Unit at the Hadassah University Hospital in Ein Karem, Jerusalem, Israel. The research will center on studying molecular mechanisms in pediatric malignancies and the interactions between the immune system and tumors.

Candidate must be skilled in molecular, cellular, and immunological techniques; be self-motivated; able to work independently and write grants; and be able to manage and supervise other projects and technicians.

Send a description of your research interests, curriculum vitae, and the names of three references to: **Dr. Michael Weintraub, Director of Pediatric Oncology, Hadassah University Hospital, P.O.B. 12000, Jerusalem, 91120 Israel.** E-mail: [michaelw@hadassah.org.il](mailto:michaelw@hadassah.org.il).

## FELLOWSHIPS

### POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

Fellowships available to residents of North America with Ph.D., M.D., or comparable degree and less than one year of postdoctoral laboratory experience by application deadline for beginning training in basic biomedical research. The three-year award consists of a stipend of \$39,000 for the first year, \$40,500 for the second year, and \$43,000 for the third year; \$2,000 per annum research allowance; \$750 per annum child dependency allowance; travel to Fellowship location; annual meeting. Applications must be received by deadline of August 15, 2002; Fellowships activate the following July. For application forms, write: **The Helen Hay Whitney Foundation, 450 West 63rd Street, New York, NY 10021.** FAX: 212-688-6794; e-mail: [hhwf@earthlink.net](mailto:hhwf@earthlink.net). For further information, refer to our website: <http://www.hhwf.org>.

## WORKSHOPS

### BIOINFORMATICS TOOLS FOR COMPARATIVE GENOMICS University of California Berkeley/LBNL/NHLBI April 29–30 and May 1–3, 2002

Designed for Postdoctorals, medical, and especially cardiovascular Researchers interested in applying bioinformatics tools to their research. Techniques include database searches, annotation, SNPs, microarray analysis, and more. No tuition. For further information, Telephone: 510-486-4162; e-mail: [pgaworkshop@lbl.gov](mailto:pgaworkshop@lbl.gov). Register before April 1, 2002, at website: <http://pga.lbl.gov/workshop>.

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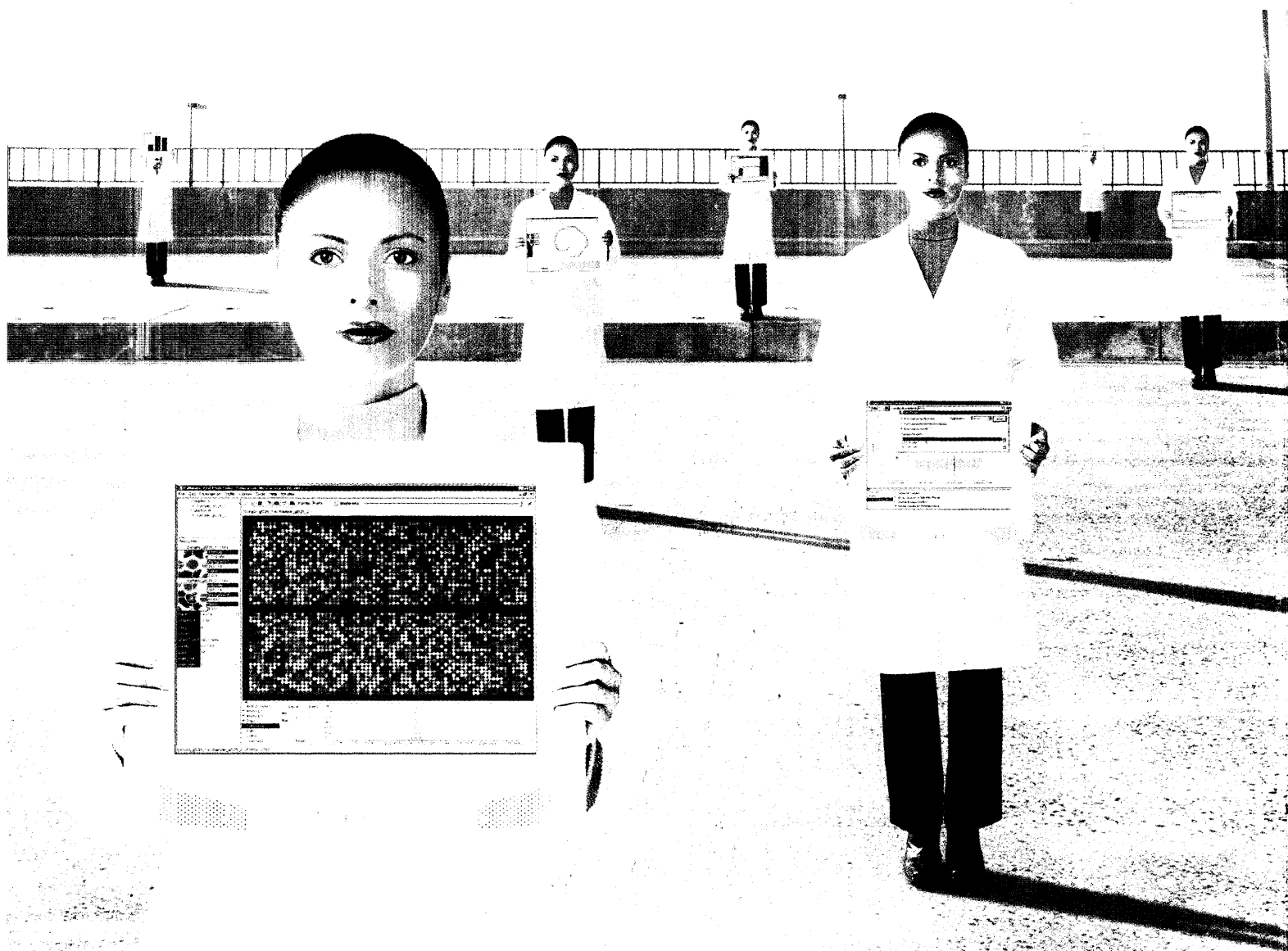
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