The University of Kentucky College of Medicine is seeking a new Chair of the Department of Microbiology, Immunology, and Molecular Genetics. We are searching for a scientist of international stature with a record of sustained grant support and visionary leadership skills. The new Department Chair is expected to lead an active research program in a department with 25 full-time faculty, promote faculty development and student education, and foster interactions within the Department and throughout the University of Kentucky. Current research strengths in the Department focus on microbial pathogenesis (bacterial, protozoan, fungal, and viral), host responses to infection, and Cellular Immunology. The Department is home to the Transgenic mouse and Flow cytometry Core Facilities. The Department is part of an Integrated Biomedical Sciences (IBS) Program, which fosters the recruitment and education of doctoral candidates for the basic science departments in the College of Medicine.

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Greg Gerhardt, PhD  Chair, Search Committee  c/o Cheryl Songer  138 leader Avenue  Lexington, KY 40506

Visit us online to learn more about the University and the Department: www.mc.uky.edu/microbiology

Upon offer of employment, successful applicants must pass a pre-employment drug screen and undergo a national background check as required by University of Kentucky Human Resources. The University of Kentucky is an equal opportunity employer and encourages applications from minorities and females.

Qualifications for appointment to the position of President and Chief Executive Officer of Liberty Science Center include the following: at least 10 years of increasingly responsible and relevant leadership experience; proven administrative and management skills, including rigorous budget management; a profound understanding of the sciences and of the role of science in society; a demonstrated commitment to the purposes of education; proven abilities as a fundraiser; superb communication skills; strong interpersonal skills and presence as a public figure; and, the ability to build and galvanize a talented team of professionals.

Nominations and applications for the position, enclosing a letter, current resume, and list of references, may be made to the Chair of the Search Committee:

Dr. Susan A. Cole, President  Montclair State University  1 Normal Avenue  Montclair, New Jersey 07043  Attention of: Mr. Michael G. Owen

Or electronically to: lscsearch@mail.montclair.edu

President and Chief Executive Officer  Liberty Science Center

Following upon the distinguished leadership of Dr. Emlyn Koster, who is retiring after a 15-year tenure, Liberty Science Center is seeking its next President and Chief Executive Officer. Located in historic Liberty State Park in New Jersey, Liberty Science Center is a major educational facility offering exceptional science learning experiences to a broad public of all ages. The position of President and Chief Executive Officer offers an outstanding opportunity for an individual with the requisite vision and leadership abilities to assure a vibrant future for an institution poised to play an increasingly important role in the area of STEM education in the State, the region, and the nation.

Liberty Science Center recently completed a $109 million expansion and renovation and offers an unparalleled facility, a wide array of educational programs and exhibitions, a talented and experienced team of professionals, and an exciting location situated at the heart of the greater New York/New Jersey metropolitan region.

The President and Chief Executive Officer reports to the Liberty Science Center Board of Trustees and is charged with providing creative leadership to all aspects of the institution, including: the provision of strong direction to the articulation and implementation of its mission; rigorous oversight of its administration; articulate and persuasive advocacy of its purposes; vigorous engagement in raising the resources necessary to its operation from government, corporate and individual donors, and operations; a committed presence in the communities it serves; willing collaboration with the wide range of educational and cultural institutions in the region; and, assuring its effectiveness in making the study and understanding of science accessible to people of all backgrounds.
THE way I treat cancer today is completely different from 10 years ago because of translational research,” says Mary (Nora) Disis, oncologist and principal investigator of the Institute of Translational Health Sciences at the University of Washington. Look at drugs like Gleevec, Avastin, and Herceptin, she says. All are examples of translational researchers converting molecular knowledge about specific cancer cells into effective, targeted therapies. The efficient movement of basic science discoveries into clinical applications—often described as “bench to bedside” work—is the goal of translational research. Disis thinks the field is so promising she hopes her kids grow up to do “bench to bedside” work—is the goal of translational research. Disis thinks the field is so promising she hopes her kids grow up to.

FLUENT IN MANY LANGUAGES, COMFORTABLE IN MANY CULTURES

Future translational researchers of all ages must be adaptable, life-long learners, says Disis. “They have to be highly curious about a lot of different things, collecting data and ideas from the basic literature and creatively applying these to disease solutions. This means being outside your comfort zone, reading literature that is way outside your field.” “Translating” is exactly what these scientists do—taking information from one domain and expressing it in another, and communicating daily with people who speak different scientific languages: laboratory scientists, clinicians, patent and regulatory experts, bio-statisticians, epidemiologists, and patients. A translational scientist should be able to move an idea all the way from basic research to a clinical application and back to the lab to inform more basic science. Handing off projects from one expert to another doesn’t work, says Disis. Success requires someone who understands the idea intimately, and who can build a multidisciplinary team to guide it along the translational path.

It’s a long journey with physical hurdles, since basic and clinical research labs usually reside in separate departments. There are also intellectual and cultural barriers. Basic science starts with a hypothesis and designs experiments that validate or reject it, with the goal of acquiring knowledge. Translational science starts with a health need and looks for scientific insights or tools to address that need. Its goal is improving health, explains Barry Coller, vice president for medical affairs and physician-in-chief at Rockefeller University, in a 2008 Mount Sinai Journal of Medicine article. The successful translational researcher needs to be comfortable in both of these cultures, be fluent in many fields, and thrive on collaboration.

For those with medical training, this might mean learning about hypothesis-driven science and designing experiments and assays. For those with a research background, it could mean learning clinical study design and the bioethics of human research. In either case, the goal is becoming competent to interpret, evaluate, and discuss different types of research, rather than conducting it all yourself, says Doris Rubio, professor of medicine, biostatistics, nursing, and clinical and translational science at the University of Pittsburgh. In her translational science training program, she says, “I have a bioengineer who can now design a clinical trial. I love that he can do that, and he says it gives him a deeper understanding of his own research.” Formalized training is important because translational science is so complex and getting exposure to all the elements is difficult outside of a specific program, says Rubio.

BEING A MULTIDISCIPLINARY TEAM PLAYER

Training options include a Ph.D., Master’s degree, or certificate in translational science. For those who already have an M.D. or Ph.D., career development awards can provide support during the training period. Classes explain the basics of study design and methods, bio-statistics, and bioethics. Because developing a new drug, device, or procedure is a team project, coursework might include team dynamics and management. However, for most trainees, the most valuable aspects of a training program are mentoring and hands-on experience in multidisciplinary research. continued »

UPCOMING FEATURES

Biotech and Pharma: Moving Up the Industry Ladder—June 17
BS/MS Scientists: Careers in Bioprocess (online only)—July 15
Postdoc Survey—August 26

www.sciencecareers.org
In the United States, most training opportunities are through the Clinical and Translational Science Awards (CTSAs), which were launched in 2006 based on the 2003 National Institutes of Health (NIH) Roadmap for Medical Research. This set of guidelines encourages cross-disciplinary, team-based research as a way to overcome obstacles to turning scientific discoveries into health solutions. Currently, CTSAs have been granted to 55 institutions, with a plan to fund 60 institutions by 2012. The goal is to fund the consortium of award recipients with approximately $500 million annually. The NIH continues to promote translational research with the creation of the National Center for Advancing Translational Sciences (NCATS) as a “bold, new, focused center systematically engineered to accelerate translation.” The CTSAs will be the cornerstone of the NCATS. However, NCATS has been controversial for the speed at which the center is being created and the extent of reorganization on other programs currently housed with the CTSAs under the NIH National Center for Research Resources.

The Howard Hughes Medical Institute also funds translational science training through its Med into Grad Initiative, which has awarded various institutions a total of $16 million as of 2010. The programs introduce elements of clinical training into basic science graduate work. They vary by institute, but range from Ph.D. programs in translational research to mentoring opportunities that pair graduate students with a physician advisor.

M.D.-Ph.D. degrees train individuals in clinical and basic research, but translational research programs strive to integrate these two sides of medical science by connecting people and building networks. Liz Broussard is a gastroenterologist who is finishing a University of Washington Institute of Translational Health Sciences training program. “There’s absolutely no way a junior researcher could launch a translational research career without this training,” she says, pointing out the benefits of everyday experience in a multidisciplinary team of scholars. “My first year, we had a psychiatrist, a surgeon, a social worker, a cardiologist, and a pharmacist in the program.” A particularly useful activity, she says, is weekly discussions of project ideas and works in progress. These are guided by senior faculty, who also give advice on “their career trajectory, resources, funding mechanisms, partnerships that were successful—essentially life experience, and teaching us how to succeed in research.” For a physician, Broussard said the value of a training program is lessons in research methods and thinking scientifically, and learning to ask whether the story in your project and funding application makes sense and has logically supported specific aims.

For a bench scientist, a background in translational research turns the medical objective that is often written into a grant application into a real and achievable goal. Ian Lanza earned a Ph.D. in kinesiology, and is now a senior research fellow in the Mayo Clinic CTSA Mentored Career Development Program. This gives him both a postdoctoral research opportunity and guidance towards his long-term goal: “That my research has a high impact on public health.” Lanza’s project involves collaborating with an endocrinologist and a radiologist, and he says, “It has been very seamless working with both, with a lot of collegiality between the departments.” In fact, one way that translational science programs integrate disciplines is to have students and young investigators act as liaisons between senior faculty in different departments. In turn, says Lanza, trainees benefit from having established clinical researchers as mentors and from working with experienced investigators from several disciplines. Lanza’s project illustrates another aspect of translational research: It’s not always about designing the next cancer drug. It can be traditional bench work with an eye toward how the results might be applied to everyday health care.

To get a sense of the variety and diversity of translational research and the educational options, look through the online offerings hosted by each CTSA-funded site. Depending on the institution, these include online case studies, podcasts and webcasts of seminars, and continuing medical education courses on topics such as statistical methods, or engaging the community in research. These web-based resources also extend the network of translational research into the global scientific community.

INTERNATIONAL AND INTERDISCIPLINARY

Translational research is not just multidisciplinary, it’s multinational. “Translational research is an emerging field in China,” says Depei Liu, president and professor of the Chinese Academy of Medical Sciences and Peking Union Medical College in Beijing. “For now there are no classes called ‘translational research,’ although related skills and experience are widely taught.” Formal training includes an option at some medical schools including Peking Union Medical College that provides eight months of research training after the clinical program. Another program allows qualified medical school graduates to earn a Master’s degree in a basic research field. Informally, “doctors are encouraged to do basic research, to apply for funding and to publish papers and collaborate with specialists in genetics and molecular biology, and doctors and basic researchers often hold meetings together. In addition, there are many short courses and training programs in the fields of basic research and clinical care.”

“I hope to provide some concrete recommendations for cost-effective, straightforward lifestyle choices that can preserve quality-of-life as people get older, not necessarily increasing their lifespan, but their health span.”

—Ian Lanza

Featured Participants

- **Chinese Academy of Medical Sciences**
  - [www.cams.ac.cn](http://www.cams.ac.cn)

- **European Commission**

- **Institute of Translational Health Sciences at the University of Washington**
  - [www.iths.org](http://www.iths.org)

- **Mayo Clinic**
  - [www.mayoclinic.com](http://www.mayoclinic.com)

- **Peking Union Medical College**
  - [english.pumch.cn/english](http://english.pumch.cn/english)

- **Rockefeller University**
  - [www.rockefeller.edu](http://www.rockefeller.edu)

- **University of Pittsburgh**
  - [www.pitt.edu](http://www.pitt.edu)

- **Wellcome Trust**
  - [www.wellcome.ac.uk](http://www.wellcome.ac.uk)
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research,” says Liu. Translational research centers have been established in major research cities; he says, for example the SIBS-Novo Nordisk Translational Research Center for Pre-Diabetes in Shanghai. Current government support includes Chinese National Science Foundation funding for applied medical research, broad support for science and technology projects from the National Basic Research (973) Program, and Science and Technology Special Projects support for basic research in drug discovery and infectious disease.

In Europe, one opportunity for translational research training is the Marie Curie Actions, part of the European Union (EU) Seventh Framework Programme for Research and Technological Development. Project support is available at the doctoral, postdoctoral, and career development level as well as for partnerships between industry and academia and for multisite studies. In keeping with the translational science goals of building networks, collaborations between countries are a focus, as is researcher mobility from one EU country to another. The budget for translational health research since 2007 has been 12 million euros, representing 3% of health research training programs for the Marie Curie Actions, according to Georges Bingen, the European Commission’s head of unit for the Marie Curie Actions People Programme.

In the United Kingdom, another stakeholder—the pharmaceutical industry—is involved in translational science training. The Translational Medicine and Therapeutics Programmes were established two years ago at University of Cambridge, University of Newcastle, Imperial College London, and a consortium of Scottish institutions. Funding is in the form of 11 million pounds from the Wellcome Trust, a London-based foundation that supports research on animal and human health, and contributions to individual institutions from companies such as GlaxoSmithKline, Pfizer, Roche, AstraZeneca, Sanofi-Aventis, Sirtris Pharmaceuticals, and PTC Therapeutics. “We recognized a need to train a new type of researcher who is comfortable in the creative space between academics and pharmacy,” says John Williams, head of clinical activities and head of neuroscience and mental health for the Wellcome Trust. “To do this, we partnered institutions with high-quality academics and health care facilities with world-class pharmaceutical companies.” Training programs can be individualized, but usually guide physicians through a Ph.D. project with an emphasis on teamwork, group support, and mentoring. Currently, 6 to 10 fellowships are awarded per year. Bidirectional communication between the lab and the clinic is facilitated by physical proximity. “We’ve embedded clinical researchers and facilities in academic hospitals, with close links to the research environment around them, including access to technology for ‘omics and imaging,” says Williams. “This allows subject phenotyping and tissue sampling to be brought into research labs to do the high-technology work that reflects today’s bioscience.”

Regardless of the geographic setting, the goals and challenges of translational research are the same, says Liu: Getting funding and infrastructure support from the government, training young investigators, creating a multidisciplinary community of researchers who can effectively communicate with each other, and finding ways to systematically implement translational research results into clinical practice.

A GROWING FIELD IN A SHIFTING BACKGROUND

Scientists beginning a career in translational science also need to consider the changing emphasis of medical research, particularly in the United States, where health care reform is currently under way. Doris Rubio says, “we’re seeing a shift to personalized medicine and medicine that’s more evidence-based. The field is also expanding into patient-centered outcomes research, so not just comparing drug A with a placebo, but drug A versus drug B.” In spite of the uncertainties, she says, “It’s an exciting time because we have a lot to learn.”

Changes in the business sector also affect the translational researcher. John Williams of the Wellcome Trust says, “Pharma is looking to change its discovery models, and as painful as that reorientation may be, it creates wonderful opportunities in the space between pharma and academia. We hope it will inspire the most creative minds to participate in this exciting time in biomedical and translational research.”

Even in the changing health research landscape, postdoctoral fellow Ian Lanza is positive about his career path. He sees the field as growing, and feels that the NIH generally supports young investigators. Gastroenterologist Liz Broussard says although she could make five times as much money in clinical practice, this would probably not compare to the NIH salary. “I enjoy the work I do now,” she says, “but ultimately, translational research can affect patients by changing the current standard of care. I am optimistic about it because I can see myself doing a small part to advance science. It’s exciting and, despite funding woes, that keeps me going.”

Chris Tachibana is a science writer based in Seattle, USA, and Copenhagen, Denmark.

DOI: 10.1126/science.opms.r1100103
The Department of Biology (www.biol.ethz.ch) at ETH Zürich invites applications for a position of Associate or Full Professor in the area of Disease Genetics/Epigenetics.

Candidates are expected to build a strong and independent research program in molecular genetics or epigenetics aimed at studying the relationship between the genome/epigenome and mammalian organ function in health and disease. In his or her hypothesis-driven research, the successful applicant should combine molecular/biochemical approaches and advanced genetics and functional genomics technologies with functional studies based on viral vectors, RNA interference, transgenesis or knockout technology using the mouse as a model system. He or she should complement the research in the area of Molecular Health Sciences performed at the Department of Biology, with a strong focus on the understanding of disease mechanisms and on the development of the scientific foundations for personalized medicine. Candidates integrating a translational research program are particularly welcome.

The new Professor will be a member of the Department of Biology of ETH Zurich and strengthen the research focus in Molecular Health Sciences. ETH Zurich offers state-of-the-art technology platforms and outstanding opportunities to participate in interdisciplinary research programs. Involvement in the teaching programs in Biology and Molecular Health Sciences is expected. She or he will be expected to teach undergraduate level courses (German or English) and graduate level courses (English).

Please apply online at www.facultyaffairs.ethz.ch. Your application should include your curriculum vitae, a list of publications, and a detailed research plan. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 31 August 2011. With a view towards increasing the number of women in leading academic positions, ETH Zurich specifically encourages women to apply.
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Research Triangle Park, North Carolina

The National Institute of Environmental Health Sciences of the National Institutes of Health is searching for a senior investigator qualified for tenured appointment to direct its Clinical Research Program, which includes an on-site Clinical Research Unit in Research Triangle Park and components at the Clinical Research Center in Bethesda, Maryland. NIEHS supports and conducts research that contributes to the basic understanding of biological and chemical processes, the contributions of environmental agents to human disease and dysfunction, and the underlying mechanisms of environmentally associated diseases. The Director, Clinical Research Program, is responsible for the development, administration, coordination and oversight of investigator-initiated clinical research; provides general advice to the Director and Scientific Director; NIEHS, on matters relating to human and clinical studies; supervises the Office of Research Compliance; and develops policies and programs for the execution of clinical research at NIEHS. For additional information concerning the duties, go to niesh.nih.gov and click on Jobs at NIEHS.

Candidates must have an established and nationally or internationally recognized record in the conduct and supervision of clinical research in a discipline relevant to the environmental health sciences. Candidates should also have an established record of experience with clinical training, institutional review boards, and compliance with current clinical safety and regulatory issues. Candidates must have a Doctor of Medicine or Doctor of Osteopathy degree from a school in the United States or Canada accredited by the Liaison Committee on Medical Education (LCME) in the year of the applicant's graduation. Candidates with a Doctor of Medicine or equivalent degree from a non-LCME accredited medical school must be certified by the Educational Commission for Foreign Medical Graduates (ECFMG) or hold a Fifth Pathway certificate issued prior to December 31, 2009. Candidates must be board certified or board-eligible in a medical specialty approved by the American Board of Medical Specialties (ABMS), and have the ability to obtain medical licensure in the U.S. To apply, submit a cover letter with plans for directing and conducting a clinical and translational research program, Curriculum Vitae and bibliography and the names and addresses (including e-mail addresses and phone numbers) of three references to the following address by June 13, 2011. Salary is commensurate with level of experience.

Ms. Stephanie Jones (Vacancy Number DIR 11-03)

National Institutes of Health
Office of Human Resources
P.O. Box 12233, Maildrop K1-01
Research Triangle Park, NC 27709
E-mail: collinsonj@od.nih.gov

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**Loyola University Chicago Stritch School of Medicine**

Dr. John Armstrong, Dean

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Director, Oncology Institute
Loyola University Stritch School of Medicine
pkuo@lumc.edu

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Salary and benefits will be highly competitive and commensurate with experience. Interested individuals should contact:
Sanjay Bidichandani, M.B.B.S., Ph.D.
MDA Vice President – Research
E-mail: researchinfo@mdausa.org

Endowed Chair in Cardiovascular Science

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Director - Research Development

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Strong candidates will have a doctoral degree (or equivalent) in a relevant field, research experience, and a working understanding of federal research and regulatory agencies (exceptional non-doctoral candidates with appropriate experience will also be considered). Experience in neuromuscular disease, with a focus on the translational research pipeline is preferred. Candidates should also have the ability to think broadly across scientific disciplines; be innovative and resourceful; have demonstrated ability to communicate complex scientific concepts to a wide array of audiences including the lay public, policy makers, members of Congress and Congressional staff; have comfort with public speaking; and have knowledge of regulatory practices as they pertain to therapeutic development and industry.

MDA is a leading advocate for neuromuscular disease research and actively sponsors basic and translational research with the goal of developing new therapies. Based in Tucson, Arizona, MDA maintains some 200 MDA funded medical clinics, a $40 million/year research program, and a national grassroots network of service providers.

Salary and benefits will be highly competitive and commensurate with experience. Interested individuals should contact:
Sanjay Bidichandani, M.B.B.S., Ph.D.
MDA Vice President – Research
E-mail: researchinfo@mdausa.org

DIRECTOR – WARFIGHTER PROTECTION & APPLICATIONS DIVISION
(Pharmacologist, Physiologist, or Biologist)

The Office of Naval Research is seeking a qualified individual to serve as the Director of the Warfighter Protection & Applications Division in the Warfighter Performance Science & Technology (WPST) Department. The incumbent is responsible for managing and directing extensive activities in fostering, administering, and executing an integrated program of basic research, applied research, and advanced technology development in the fields of biology, physiology, pharmacology, and research psychology. Sponsored efforts are conducted principally at U.S. universities and industry or Federal laboratories. This is a Civil Service position at the NP-IV level ($105,211 – $155,500) depending on individual qualifications.

The position requires a world-class scientist with knowledge and experience in the fundamental theories, concepts, and current-state-of-the-art research and/or technology development in the broad areas of biology, physiology, pharmacology, and research psychology, and has a proven track record in carrying out research and development at a level that has garnered respect in the highest levels of academia.

Building on decades of cutting edge scientific achievements, NASA Ames Research Center is creating a new, interdisciplinary, research effort to use synthetic biology as an enabling technology to explore our solar system.

As a recognized expert and leader, you will establish a Center for Space Synthetic Biology and play a key role in defining the field. You will direct start-up funds (subject to appropriation) intended to fund your salary, lab equipment, graduate students, and post-doctoral students, and grow research capabilities to build this center into a world-renowned establishment. You will recruit and lead research teams, compete for grants, and collaborate with others within and outside of NASA.

The Center for Space Synthetic Biology at NASA Ames Research Center is being created to harness biology in reliable, robust, engineered systems to support NASA's exploration and science missions, to improve life on Earth, and to help shape NASA's future.

At NASA, your research could change the world, and enable exploration of new ones.

**US Citizenship is required.**

Interested applicants should apply directly to USAJobs to vacancy number AR11B0066 at http://jobsearch.usajobs.gov/fvva.asp?opmcontrol=2240258

**NASA Ames Research Center does not discriminate in employment on the basis of race, color, religion, sex, national origin, political affiliation, sexual orientation, gender identity, marital status, disability and genetic information, age, membership in an employee organization, or other non-merit factor.**

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**Call for applications for the positions of Chief Scientist**

RIKEN Advanced Science Institute, JAPAN

RIKEN Advanced Science Institute (ASI) is applying its integrated and interdisciplinary resources and autonomous atmosphere to strengthen various interdisciplinary research fields. ASI is now planning to establish a laboratory headed by Chief Scientist who is capable of implementing original research in the interface between chemistry and biology, to establish functional strategies over the medium and long terms. The new laboratory is expected to stand at the forefront of chemistry, e.g. in creating innovative substances, and develop a new research field through construction of higher order biological complexes, dynamic analysis of living systems, and so forth.

The post is a permanent appointment, subject to RIKEN's mandatory retirement age of 60. RIKEN expects that the successful applicant will be able to take up this position on April 1, 2012.

Applicants should send a full curriculum vitae and photograph; list of publications; one copy each of five key publications; a statement (about five pages A4 sized paper) explaining former research experience and proposals for research at RIKEN; and the names and addresses of three referees. Further details are available from the address below. **All applications should reach RIKEN by August 15, 2011.**

Applicants should address all correspondence to:

Dr. Yukishige Ito, Head of the Chief Scientist Nominating Committee, RIKEN Advanced Science Institute, 2-1 Hirosawa, Wako, Saitama, 351-0198, JAPAN

For more information, please visit: [http://www.riken.go.jp/engn/r-world/info/recruit/k110316_s_asci.html](http://www.riken.go.jp/engn/r-world/info/recruit/k110316_s_asci.html)

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**Our World-Class Research Institute Is Looking for Scientific Leaders**

Since its inception, The Methodist Hospital Research Institute has challenged the notion of “by-the-book” medical research. Led by Mauro Ferrari, Ph.D., President and CEO, the Research Institute is a 440,000-square-foot research enterprise for The Methodist Hospital System in Houston, TX, and is affiliated with the Weill Cornell Medical College in New York City. Methodist is transforming medicine with emerging techniques, and a staff that is developing real treatments and cures every day. Our laboratories are equipped with advanced technology and facilities that include a cyclotron, pre-clinical and clinical imaging, flow cytometry and microscopy, small and large animal vivariums; and a GMP facility for nanoparticles, contrast agents, vaccines, and therapeutic molecules. Our facility is a vertically integrated state-of-the-art laboratory for translational and clinical research where translational researchers and physician scientists bring ideas to clinical applications.

**We are now searching for research professionals to serve in a variety of capacities.**

**Program leaders in the fields of:**

- Neurodegenerative Diseases and Repair of the Nervous System (Methodist Neurological Institute)
- Cardiovascular Science (Methodist DeBakey Heart & Vascular Center)
- Cancer Biology (Methodist Cancer Center)

**Senior scientists in the fields of:**

- Diabetes and Metabolic Disorders (Methodist Center for Diabetes, Obesity and Lipids)
- Transplant Immunology (Methodist Transplant Center)

Candidates should be nationally and internationally recognized leaders with an outstanding track record of scientific discovery, funded research, programmatic leadership and academic mentorship. We will provide you with a position in the epicenter of medical research. You’ll discover an excellent research environment, state-of-the-art equipment, and the chance to follow your research from discovery to clinical application in a single facility.

Applicants should submit a Statement of Scientific Interest, a Curriculum Vitae, and the names of three references to: Tong Sun, Director of Central Research Administration, The Methodist Hospital Research Institute, 6670 Bertner St., M.S. R2-216, Houston, TX 77030, or email facultyapplication@tmhhs.org (please specify applying field in the subject line of email). Our success as an organization is due to the diversity of our team. We are an equal opportunity employer.


**Methodist The Methodist Hospital Research Institute**

Houston, TX

**Leading Medicine**

The Methodist Hospital System is the official health care provider of the Houston Texans, Houston Astros, Houston Dynamo, Race Athletics, Houston Ballet, Houston Grand Opera and Houston Symphony.
Get a **Career Plan** that Works.

An exceptional career requires insightful planning and management. That’s where *Science* Careers comes in. From job search to career enhancement, *Science* Careers has the tools and resources to help you achieve your goals. Get yourself on the right track today and get a real career plan that works. Visit [ScienceCareers.org](http://ScienceCareers.org).
Assistant/Associate Professor of Veterinary Anatomic Pathology (tenure track)

Applications are desired from candidates who have enthusiasm for investiga- tive or translational research in areas that integrate within existing research strengths at the University of California, Davis and the concepts of “One Health”. Veterinarian with advanced training in anatomic pathology is required as well as publication in high quality journals and a PhD or equivalent. Eligibility for certification by the American or European College of Veterinary Pathology is required. However, board certification is preferred. Candidates are expected to have or to establish and maintain a strong extramurally funded research program. Candidates must possess excellent interpersonal and communication skills and a demonstrated ability to work with others in a collegial team atmosphere. Candidates with a demonstrated aptitude/experience in professional and/or graduate education would best complement the diverse curriculum at UC Davis. Postdoctoral research experience is preferred. Office and laboratory space are available in a new, state-of-the-art facility (Veterinary Medicine 3A, opened in 2007). The department’s research and teaching programs interdigitate with other campus-wide programs, and resources in the Schools of Medicine and Veterinary Medicine, the California National Primate Research Center, and the Cancer Center.

To receive fullest consideration, applications must be received by September 1, 2011; position opened until filled. Submit applications with letter of interest, curriculum vitae, concise statement of present and future research plans, summary of teaching experience, and names of three references (including addresses, telephone numbers and e-mail addresses) to: Linda Potoski, Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of California, Davis, CA 95616.

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

Stony Brook University’s Department of Physiology and Biophysics is seeking Postdoctoral Associate’s. The positions are available for those holding PhD/D.Sc., or equivalent in the biological sciences (required) with 0 to 2 years of prior postdoctoral training (preferred). The Wnt signaling cascade controlling development will be explored at the cellular level using molecular and cell biological as well as proteomic strategies, focusing on studies performed in embryonic stem cells. Read-outs include gene expression, protein-protein interactions in live cells, and expression of developmentally important markers. Prior experience in research techniques central either to developmental or to molecular biology and /or Wnt signaling preferred. Prior experience in embryonic stem cell propagation and use welcomed.

For a full position description, application procedures, or to apply online, visit www.stonybrook.edu/jobs (Job Reference #: HS-R-6793-11-05-S) or email cover letter and C.V. to: Dr. Hsien-yu Wang, Stony Brook University, Physiology and Biophysics, Stony Brook, NY 11794-8661 wangh@pharm.stonybrook.edu

Stony Brook University/SUNY is an equal opportunity, affirmative action employer.

The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines ranging from the social sciences, the arts, medicine, architecture to fine art. Cross-disciplinary cooperation results in innovative breakthroughs and creative solutions with far-reaching social and economic impact.

Faculty of Medicine
Professorship in Medicine (Nanomedicine)

The Faculty of Medicine at the Norwegian University of Science and Technology (NTNU) announces a vacancy for a Professor in Medicine (Nanomedicine). The professorship is part of NTNU’s strategic effort in the field of nanotechnology. The successful applicant will benefit from a strong existing infrastructure at NTNU NanoLab (www.ntnu.no/nanolab). The new St. Olav’s Hospital is a fully integrated university hospital with offices and laboratories located inside the clinical centers. This provides an excellent arena for translational and inter-disciplinary research involving medicine, technology and the natural sciences. We seek a candidate with solid experience in organizing and leading an independent research group and attracting international funding. The successful candidate excels in nanomedicine as proven by a strong record of scientific publications.

For further information about the application process see www.jobbnorge.no or contact Professor Olav Haraldseth, E-mail: olav.haraldseth@ntnu.no, Tel. +0047 7359 8249. See also http://www.medisin.ntnu.no/eng/ Application deadline: 31 July 2011.

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Professor of Sustainable Agroecosystems

The future Department of Environmental Systems Science at ETH Zurich invites applications for a Professor to develop and lead a research group in Sustainable Agroecosystems. The new Professor will be expected to develop an internationally recognized research program in agroecosystem science. His or her research will lead to new tools and concepts to assess and manage agroecosystems at the farm to landscape scale. The overall goal in this professorship will be to increase the resource efficiency of food production while minimizing the negative impacts of agricultural production on the environment.

The new colleague will be expected to engage in extensive research and teaching collaborations with other professorships sharing similar interests at ETH Zurich, within the ETH domain and with relevant institutions. The new professor will be expected to teach undergraduate level courses (German or English) and graduate level courses (English) in the field of agroecosystems science.

Please apply online at www.facultyaffairs.ethz.ch. Your application should include your curriculum vitae, a list of publications, a statement of your research and teaching interests, and the names and contact information of three possible referees. The letter of application should be addressed to the President of ETH Zurich, Prof. Dr. Ralph Eichler. The closing date for applications is 31 August 2011. With a view towards increasing the number of women in leading academic positions, ETH Zurich specifically encourages women to apply.

The University of California is an Equal Opportunity/Affirmative Action Employer.
DEPARTMENT HEAD
Veterinary and Microbiological Sciences
North Dakota State University

The North Dakota State University (NDSU) Department of Veterinary and Microbiological Sciences is currently recruiting for a Head. Our faculty train undergraduate and graduate students in core areas of veterinary and microbiological sciences. In addition, the department has well-equipped laboratories and nationally recognized areas of research. The Head will foster excellence in research and teaching and service within the department. In collaboration with faculty, the Head will lead the development and articulation of the departmental vision. In addition, the Head will develop and maintain productive working relationships with the university, scientific communities, and the public as well as livestock and companion animal constituencies. (S)he will manage the department’s human, financial, and physical resources, which will include conducting performance evaluations, preparing and submitting administrative reports, administering merit-based pay increases, and providing oversight of budgets and physical facilities. The Head will recruit and retain outstanding students, staff, and faculty; will promote an environment that fosters diversity, collegiality, and teamwork; and will actively seek resources for the support of academic and service programs including extramural funding and endowments. It is anticipated that the Head will contribute to the development of graduate programs as is commensurate with his/her administrative responsibilities.

For a complete list of minimum and preferred qualifications for this position, please visit website: http://jobs.ndsu.edu/postings/438.

NDSU is an Equal Opportunity /Affirmative Action Employer. NDSU is an ADVANCE Institution.

FACULTY POSITION ASSISTANT PROFESSOR
Nutrition and Cancer
The University of Texas at Austin

The Department of Nutritional Sciences, School of Human Ecology, College of Natural Sciences, invites applications for a tenure-track faculty position at the rank of Assistant Professor. For this position, we are seeking candidates with a focus on nutrition and cancer. Candidates with research on nutrition in relation to pediatric cancers are especially encouraged to apply. Specific research areas related to nutrition and cancer and of particular interest include inflammation, epigenetics, metabolism/metabolomics, and early life exposures; how metabolomics, and early life exposures; how metabolites and diet are associated with research on nutrition in relation to pediatric cancers are encouraged to apply. A Ph.D. in a relevant field and a strong background in research productivity and federal funding. Applicant Instructions: Interested candidates should submit a letter of interest, curriculum vitae, a research statement, and a list of five references (who will not be contacted without the consent of the candidate). Applications and letters should be sent to the attention of: Dr. John DiGiovanni, Chair Search Committee, Department of Nutritional Sciences, The University of Texas at Austin, Dell Pediatric Research Institute, R1880, 1400 Barbara Jordan Boulevard, Austin, TX 78723 or e-mail: jdiagiovanni@mail.utexas.edu. Background check conducted on applicant selected.

ASSOCIATE/ASSOCIATE PROFESSOR
Harvard Medical School
Beth Israel Deaconess Medical Center
Department of Obstetrics and Gynecology

The Department of Obstetrics and Gynecology, Harvard Medical School, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA. E-mail: jyei1@bidmc.harvard.edu.

FACULTY POSITION
Department of Pharmaceutical Sciences
University of Pittsburgh

The Department of Pharmaceutical Sciences of the School of Pharmacy is seeking candidates at all levels for a tenure-track faculty position.

The department’s faculty have diverse research interests: biochemical pharmacology, molecular biology and genetics; drug discovery, development and delivery; and etiology of drug abuse disorders (website: http://www.pharmacy.pitt.edu/about/departments/pharmsciences.html). The faculty interacts through their associations with the school’s Center for Pharmacogenetics, Center for Education and Drug Abuse Research and Center for Translational Research and the University of Pittsburgh Drug Discovery Institute, the University of Pittsburgh Clinical and Translational Science Institute, the University of Pittsburgh Cancer Institute, and the VA Pittsburgh Healthcare System. Applicants whose research interests and expertise in areas of strength are particularly encouraged to apply. Applicants should have a Ph.D., PharmD, M.D., or equivalent and a record of experience and scholarship consistent with the rank sought. The successful applicant will be expected to contribute significantly to the School’s Ph.D. and PharmD programs.

The Department of Pharmaceutical Sciences is located on the Oakland campus of the University of Pittsburgh along with the other Health Sciences Schools and the School of Arts and Science. This close proximity, along with affiliation with the University of Pittsburgh Medical Center, provides unique intellectual opportunities for research and education, as well as access to extensive research resources. The University of Pittsburgh continues to rank in the top ten among all universities in research support from the National Institutes of Health. For information on the Pittsburgh area see website: http://www.coolpgh.pitt.edu/.

Applications should send PDF files containing a letter describing their interest in the position, a description of their current and/or future research interests, a complete curriculum vitae, and the names of at least four individuals who will serve as references to: Ms. Michele Chamberlain at e-mail: mrc06@pitt.edu. Applications will be reviewed starting July 1.

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

POSTDOCTORAL POSITION
Johns Hopkins University
Membrane Transport Program

William B. Guggino, Ph.D., professor and director of Physiology in the School of Medicine seeks outstanding individuals to study transport proteins using electrophysiological approaches. Suitable candidates must have a Ph.D. and a proven record of research achievements. Applicants will be assessed on an ongoing basis until July 30, 2011 and should send one electronic (PDF) document including curriculum vitae, a statement of research plans, and copies of any relevant publications to e-mail: gugginolabrecruitment@jhmi.edu.

Applications should be sent directly from the supporters to the same e-mail address.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Germline Stem Cells

Studies include culture, differentiation, and gene activity of male germine stem cells. See Science 321:645-648, 2007 and PNAS 106:21672, 2009. Send curriculum vitae, names of three references, and a letter describing research experience to: R. L. Brinster, School of Veterinary Medicine, University of Pennsylvania. E-mail: eposte@vet.upenn.edu.

FACULTY POSITION
Section of Endocrinology
Tulane School of Medicine

Research or tenure-track position, ASSISTANT or ASSOCIATE PROFESSOR level. Section focus is on diabetes. Funded candidates with molecular and/or clinical pathophysiology are encouraged to apply. Research and teaching responsibilities. Adjunct appointment(s) with Physiology, Biochemistry, and Pharmacology are also possible. Section has strong clinical research/clinical trials program. Clinical samples/materials available for collaborative clinical/translational research. Section also involved in epidemiology studies and a pilot program of clinical translation of stem cell therapy in diabetes. Send curriculum vitae, research and teaching goals, and three references to e-mail: vfonseca@tulane.edu. Search open until qualified applicant is identified.

Affirmative Action/Equal Opportunity Employer. Women and minorities are invited to apply.