

Trail Blazer Lighting Up Research Path in Singapore



hysician-scientist Dr David M Virshup's research on cancer treatment targeting the proliferation of cancer stem cells spells new hope for cancer patients.

Dr Virshup who is from the US, came to Singapore a year ago to join the newly opened Duke-NUS Graduate Medical School Singapore where he is Director of the Cancer and Stem Cell Biology programme.

Prior to his arrival here, Dr Virshup was involved in research targeting the proliferation of cancer stem cells as a potential treatment for many common cancers such as colon, liver, breast cancers and leukaemia. Research in this area is still very new and there is much more that needs to be done before the drugs make it to the patients.

Given his expertise and experience, Dr Virshup is one of the awardees of the newly introduced **Singapore Translational Research Investigator award (STaR)**. For this award, he will receive a generous S\$5 million grant over five years for his research on cancer treatment. Dr. Virshup feels that stable multi-year funding is key to encouraging the strongest research, by allowing higher risk and higher yield projects to be undertaken.

For his research under STaR, Dr Virshup will be working on developing small molecule inhibitors of Wnt signalling - which is a complex network of proteins well known for their role in cancer. Wnt signalling is also important in cell proliferation and stem cell maintenance.

Dr Virshup completed his clinical training in Paediatrics and Paediatric Haematology/Oncology at Johns Hopkins. He was most recently an Investigator at the Huntsman Cancer Institute at the University of Utah before moving to Singapore.

On his decision to come to Singapore, Dr. Virshup said: "I was very attracted by the opportunity to help establish a pioneering graduate medical school in Asia." And, he is looking forward to helping train physician-scientists like himself.





The Singapore Translational Research Investigator Award (StaR) is a programme under the Singapore's Biomedical Sciences Initiative Phase II to boost the pool of clinician scientists and translational researchers in Singapore.

This prestigious award aims to recruit and nurture world-class clinician scientists to undertake cutting edge translational and clinical research (TCR) in Singapore. Some will also lead or contribute to the development of national flagship research programmes which are oriented around strategic disease areas.

Bringing along their research experience, STaR investigators will serve as catalysts to foster strong collaborations between research groups and institutions locally and internationally. They will also act as mentors for younger researchers.

The award is for a period of up to five years and includes funding for salary, an annual budget for research support and a one-time start up grant. The amount varies according to the proposals submitted by the Investigators. Four renowned translational and clinical researchers, including Dr Virshup, formed the inaugural batch of STaR. They were awarded in May 2008 in Singapore.

Call for **STaR** is now open Visit www.nmrc.gov.sg

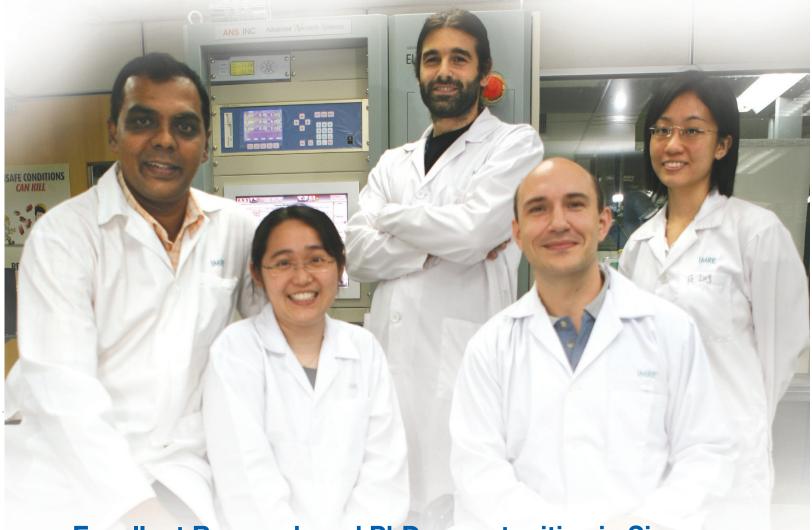
JP171377R











Excellent Research and PhD opportunities in Singapore

Earn a prestigious PhD degree from Singapore while working with top researchers in the laboratory of your choice. You can do that, with the Singapore International Graduate Award (SINGA).

The SINGA programme is a collaboration between the Agency for Science, Technology & Research (A*STAR), Nanyang Technological University (NTU) and the National University of Singapore. It aims to bring together top talents from all over the world to work in Singapore's research-intensive environment.

SINGA offers full tuition support, generous monthly stipends and grants.

To find out more, visit www.singa.a-star.edu.sg

Research Categories: Biomedical Sciences | Physical Sciences & Engineering

JP171428R





For more information, visit www.dxassays.com

ASSAY DEVELOPMENT S VALIDATION A QIAGEN and Bio*One Capital joint venture Development & Validation of client-provided content in: Molecular diagnostics - Infectious disease testing - Genetic predisposition - Oncology Equipped with state-of-the-art technology GLP compliance Is your assay as good as you want it to be?

Address: Unit #02-01/02, Blk 35 Marsiling Ind Estate Road 3, Woodlands Central Industrial Estate, Singapore 739257 Telephone: +65 6499 0720 Fax: +65 6499 0721 Email: enquiries@dxassays.com

JP171321R

CAREERS IN BIOENGINEERING AND NANOTECHNOLOGY

The Institute of Bioengineering and Nanotechnology in Singapore is seeking highly motivated individuals who are interested in making an impact in advancing research and development in the following areas:



Drug and Gene Delivery

where the controlled release of various therapeutics involve the use of functionalized polymers and hydrogels for targeting diseased cells and organs, or for responding to specific biological stimuli.



Cell and Tissue Engineering

where biomimicking materials, stem cell technology and bioimaging are combined to develop novel approaches to regenerative medicine and artificial organs.



Pharmaceuticals Synthesis and Nanobiotechnology

which encompasses the efficient catalytic synthesis of chiral pharmaceuticals, and new materials for sustainable technology and alternative energy generation.



Biosensors and Biodevices

which involve nanotechnology and microfabricated platforms for the detection and treatment of diseases, and the synthesis and screening of biologics.

Positions are available for Senior Group Leader, Group Leader, Principal Research Scientist, Senior Research Scientist, Research Scientist, Postdoctoral Fellow, Research Officer and Lab Officer in IBN's four research areas.

We provide competitive salaries as well as attractive benefits. Remuneration will commensurate with qualification and experience.

If you are interested in joining a multi-disciplinary research institute at the cutting edge of bioengineering and nanotechnology, please forward a cover letter, your curriculum vitae, and a list of three references to:

Prof. Jackie Y. Ying, Executive Director
Institute of Bioengineering and Nanotechnology
31 Biopolis Way, The Nanos, #04-01, Singapore 138669
Email: recruit@ibn.a-star.edu.sg Website: www.ibn.a-star.edu.sg











Local Address. Global Perspective.





National University of Singapore Graduate School for Integrative Sciences and Engineering (NGS)

The home of cutting-edge, cross-disciplinary PhD Research and Graduate Education

Research-Intensive PhD at NGS

NGS offers generous, full PhD scholarships to talented students with strong research potential in science, engineering, computing and related aspects of medicine. All students have access to ample resources, a world-class infrastructure, and receive supervision from top flight academics. Coursework is tailored to individual student needs and interests.

What We Offer

- Four-Year PhD programme
- Full Fees, Monthly Stipend of S\$3,200 (approximately USD 2,500)
- Allowances for ITware, books and International Conferences
- No bond
- Cross-disciplinary research at the forefront of science, engineering, computing, and related aspects of medicine
- Opportunities for PhD research projects based both in Singapore, and the USA/Europe/Japan/China

Examples of Research Areas

(Please refer to our website for the complete list)

Engineering

Biomolecular, Chemical, Computer, Electrical, Environmental, Manufacturing, Mechanical, Materials, Nanotechnology, Robotics

Information Technology

Bioinformatics, Computational Science, Info-communications, Interactive Digital Media

Life Sciences

Biochemistry, Cell and Molecular Biology, Developmental Biology, Genetics, Genomics, Lipidomics, Proteomics, Immunology, Pharmacology, Physiology, Regenerative Medicine, Stem-Cell Research

Physical Sciences

Biophysics, Chemistry, Physics (Atomic, Computational, Experimental, Fluid Dynamics, Nano, Particle, Quantum Mechanics, Solid State), Structural Sciences

Seize the opportunity, challenge yourself, and achieve research excellence among the world's best. Apply through our website today at http://www.ngs.nus.edu.sg.

APPLICATIONS OPEN YEAR ROUND

NUS Graduate School for Integrative Sciences and Engineering

Tel: +65 6516 1480

Email: ngsenquiry@nus.edu.sg Website: http://www.ngs.nus.edu.sg



IP171324R





Lead the next generation of pharmaceutical science.

Discover the Answers that Matter.

Eli Lilly and Company is a leading, innovation-driven pharmaceutical corporation with approximately 42,000 employees worldwide. Lilly is developing a growing portfolio of best-in-class, first-in-class pharmaceutical products. We achieve this by applying the latest research from our own worldwide laboratories, by collaborating with eminent scientific organizations and by making use of the most up-to-date technological tools.

Established in 2002, Lilly Singapore Centre for Drug Discovery (LSCDD) is now expanding its capabilities to discover and develop new medicines more productively, in the areas of cancer and metabolic disorders. We form a network of drug development partners, and through innovative data integration approaches, discover and apply biomarker and patient-tailoring solutions.

Located in the exciting Singapore Biopolis, LSCDD's multi-disciplinary and multi-cultural team is working to redefine the leading edge. We are looking for outstanding individuals with demonstrated industry experience in Biotech/Pharmaceutical/Drug Discovery to fill the following positions:

- Group Leader, Diabetes Pharmacology
- Senior Scientist, Diabetes Pharmacology
- Group Leader, Diabetes Biology
- · Senior Scientist, Diabetes Biology
- Senior Scientist, Diabetes (in vitro) Biology
- Research Associate, Diabetes (in vivo) Pharmacology
- Research Associate, Diabetes (in vitro) Biology
- Research Associate, Oncology (in vivo) Pharmacology
- Research Associate, Oncology (in vitro) Biology
- Group Leader, Cancer Biology
- Senior Scientist, Cancer Biology
- Senior Scientist, Cancer Biomarker Discovery
- Senior Biosafety Officer

- Staff Scientist, Assay Development
- Senior Systems Analyst
- Software Architect
- Group Leader, Epigenetics
- Senior Scientist, Systems Biology (Computational)
- Senior Scentist, Systems Biology (Experimental)
- Associate Bioinfomatics Scientist, Systems Biology
- Associate Director, Bioinformatics (ICS)
- Senior Software Engineer (ICS)
- Senior Bioinformatics Scientist (ICS)
- Manager, Software Engineering (ICS)
- Associate Scientist, Biomarkers

Log on to **www.lscdd.lilly.com.sg** to find out more about these positions and what a career at Eli Lilly and Company can offer you. Eli Lilly is an equal opportunity employer.

www.lscdd.lilly.com.sg

Lilly Answers That Matter.

JP171322R





Singapore's **Science & Technology University**

Top-ranked university

- Among the world's top 100 universities today*
- First Singapore business school to break into the top 50** in the world

Culture of innovation

- Strong innovation ethos with a well-developed ecosystem for technology transfer and commercialization
- Attracts substantial worldwide funding due to its research investments and high-impact research

Nobel boost

- 10 Nobel Laureates and a Fields medallist on NTU Institute of Advanced Studies' panel of International Advisors
- Promotes regular high-level meetings with Nobel Laureates

First-class infrastructure

Home to some of the best facilities, including a US\$17.8 million Research TechnoPlaza and more than 70 research centres

Globally-relevant

- Cosmopolitan hub for 30,000 students and 4,000 faculty and staff from over 40 countries
- Partner of choice for many leading academic and research institutions

Industry-academic partnership

Extensive research collaborations with industry, including technology-based partners such as EADS, Thales, Rolls-Royce, Robert-Bosch and Infineon

Interdisciplinary approach

- Strong emphasis on interdisciplinary approach to research and education
- Combines science and technology with business, arts, humanities, and social sciences

Preferred choice of international graduate students

- 85% of PhD students from Asia, Europe and the **United States**
- Offers generous scholarships

Research excellence

- Earth Observatory of Singapore, the region's flagship institute for earth sciences research and innovation
- Nanyang Environment and Water Research Institute, a one-stop centre for industry and research partners to access NTU's capabilities in environment and water technologies

Best of Asian culture and modern technology

- Brings together culture and technology, bridging the best of East and West
- The Times Higher Education Supplement 2008

JP171375R

College of Engineering

Nanyang Business SchoolNational Institute of Education

College of Humanities, Arts, & Social SciencesS. Rajaratnam School of International Studies

www.ntu.edu.sg





Earthquakes, tsunamis, volcanic eruptions, sea-level rise, tropical storms, changes in patterns of precipitation and temperature and other natural hazards are increasingly challenging human aspirations and well-being. Research at the Earth Observatory of Singapore (EOS) will focus on understanding Southeast Asia's dynamic oceans, atmosphere and tectonic plates and characterizing the tectonic, volcanic and climatic processes responsible for these hazards. These scientific characterizations will promote forecasts of natural processes that will aid governments, communities and businesses to anticipate and adapt creatively to these environmental challenges, as well as develop and implement visionary policies.

The EOS was recently funded by Singapore's National Research Foundation (NRF) and Ministry of Education (MOE) as a Research Centre of Excellence and an autonomous institute at Nanyang Technological University (NTU). Through a new School of Earth Science (SES) at NTU, EOS scientists will also work to integrate research and teaching into education of future generations.



We plan to make about 15 tenure-track appointments over the next few years. Most will be at the assistant-professor level, but a few will be more senior.

If being part of a new earth-science research team in tropical Asia intrigues you, please email your application package (consisting of a curriculum vitae, list of publications, statement of research and teaching interest, and the names of 3 references) to **EOS@ntu.edu.sg** by **1st December 2008.**





JP171527





First 2-rate observed 1. Decorated to the first of the fi

Sign of the state of the state

Nature's archive **is** the history of science. Since launch in November 1869, Nature has published many of the most significant and influential papers in modern science. Articles are published in PDF with HTML abstracts.

You can search by author, affiliation or citation, or simply browse by issue. All articles can be searched from **www.nature.com**.

Full text access to the article is available with a site license. Ask your Librarian or information manager about site license access. Individual articles can also be purchased online.

Are you interested in Nature's history?

For video interviews, articles, and timelines, visit www.nature.com/nature/history.

www.nature.com/nature/archive

nature publishing group npg

•





A major center of excellence for tropical disease research.

A research institute hiring only the best scientists.

A global center with outstanding training opportunities.

Think what's possible.

Novartis Institute for Tropical Diseases (NITD) Singapore

Backed by one of the largest pharmaceutical companies in the world and major foundations, the Novartis Institute for Tropical Diseases is an established organization that intends to become a major force in fighting the spread of tropical diseases. In developing countries where these diseases are endemic, the Novartis Group intends to make treatments available to poor patients without profit. With over 100 researchers and support staff, the focus of the Institute's research activities is on Dengue, Tuberculosis and Malaria. The discovery technology is state-of-the art and the scope of activities ranges from target discovery, screen development and compound optimization, up to readiness for clinical testing, or Proof of Concept in man.

Director of Institute

We are seeking a renowned scientist to join us as Director of Institute, in succession of the present Director who will retire in mid 2009. Reporting to the Head of Corporate Research of Novartis and the Chairman of the Board of NITD, the Director will promote the discovery of drugs with significant medical advantage and economic viability in the developing world, making the most efficient use of available resources.

Based in Singapore, one of the fastest-growing bioclusters in Asia, the Director will lead the organization to the next stage of its development and guide a motivated team of best-in-class researchers to accomplish the Institute's mission.

You will promote resource-sharing within Novartis' research organizations and manage a complex network of collaborations with internal and external Institutes/organizations. You will also be responsible for implementing the Institute's research strategy and be the key decision maker for our pipeline of programs, with the goal of maintaining an innovative and competitive program portfolio. In addition, you will represent the Institute within the international scientific community.

Ideally, you will be a senior scientist with a genuine passion for the advancement and application of medical science for the benefit of the society. You must have an M.D. or Ph.D. in Biology or a related discipline, with at least 10 to 15 years' relevant research experience in industry drug discovery, early stage drug development and academia. You must possess working knowledge of infectious diseases/anti-infectives, and be familiar with drug discovery concepts. Additionally, you should have proven leadership capabilities with excellent implementation skills, along with a strong command of the English Language. Experience in collaborating with multicultural teams across multiple functions will be a distinct advantage. An attractive remuneration will be offered to the right candidate, and relocation assistance will be provided as necessary.

Interested candidates should email their CV and cover letter, stating details of current remuneration, to Berit Bretthauer or Charles Moore at Novartis-ITD@heidrick.com. Closing date for applications is 21 November 2008.



www.novartis.com

JP171373R





Master of Science Degree in Infectious Diseases, Vaccinology and Drug Discovery

The National University of Singapore (NUS), the Novartis Institute for Tropical Diseases (NITD), the Biozentrum of the University of Basel (UoB) and the Swiss Tropical Institute (STI) are jointly recruiting candidates for a research-based joint M.Sc. program on the approaches to control communicable diseases, particularly in vaccinology and drug discovery.

M.Sc. Programme

This program comprises 18 months of formal teaching and research work, of which students will spend the first 5 months (September 2009 to January 2010) in Basel, Switzerland, attached to the STI and the UoB-Biozentrum, before moving to Singapore for research work and their selected course modules. As the vacancies for this program are limited to a maximum of 20, candidates will be admitted based on the selection criteria of the Admission Committee of the National University of Singapore and the Teaching Committee for Biology of the University of Basel.

Degree

Upon completion of the program, graduates will receive a joint M.Sc. Degree from NUS and UoB.

Funding

Selected students will be offered a stipend which covers the 18 months of studies, including tuition fees, research and travel expenses. The number of stipends is limited, and students may opt for self-funding.

What Will You Learn?

Students will obtain a comprehensive insight into the basics of infectious diseases, as well as the strategies of vaccine designing and drug discovery. Lectures will complement a research project undertaken within the leading laboratories at NUS and NITD.

Application

Please refer to the document "Applications and FAQs" posted on the following websites: www.nitd.novartis.com, www.sti.ch/teaching-and-training/msc-in-infectious-diseases.html and medicine.nus.edu.sg/corporate/joint_msc.shtml. Graduates who have obtained a Bachelor's Degree inBiology or a related subject, (e.g Microbiology, Immunology) or successfully completed a degree course in Medicine, may apply for this program.

Closing Date

Applications should reach us by 30 November 2008. The M.Sc. program will commence on 14 September 2009 in Basel, Switzerland.









JP171433R





nature publishing group language editing

Premium science and medical editing

NPG Language Editing is a highquality English language editing service for researchers preparing papers for publication in scientific and medical journals. Our focus is on improving the clarity and sense of the written manuscript, so that your research results stand out.

Visit languageediting.nature.com for your 10% welcome discount.