



DISTINGUISHED TECHNOPRENEUR SPEAKER FORUM

Featuring Phillip Allen Sharp, American geneticist, molecular biologist and Nobel Laureate



Professor Phillip Sharp's landmark work in molecular biology and biochemistry provided one of the first indications of "discontinuous genes" in mammalian cells, a discovery that has fundamentally changed the understanding of gene structure and earned him the 1993 Nobel Prize in Physiology or Medicine. His lab has now turned its attention to understanding how RNA molecules act as switches to turn genes on and off (RNA interference). These newly discovered processes have revolutionized cell biology and could potentially generate a new class of therapeutics.

At the sixth instalment of the DTS Forum series, ETPL has the honour of inviting Professor Sharp to share his wealth of knowledge and experience to inspire entrepreneurs, industry professionals, researchers and academia in Singapore to explore the potential of innovation and entrepreneurship.

Professor Sharp will speak on the convergence of life sciences with engineering, physical and computational sciences, and how this will be a major source of future innovation. He will elaborate on how the life sciences has emerged as a driver of innovation through genetic engineering, sequencing of the human genome and the discovery of RNA interference, sharing personal experiences from his co-founding of companies such as Biogen Idec and Alnylam Pharmaceuticals.

As part of the Skills Training for Excellence Programme (STEP) Initiative, the Singapore Workforce Development Agency (WDA) is a supporting organisation of the DTS forum.

A*STAR Chairman Mr Lim Chuan Poh will be the Guest of Honour at the event.

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First 100 registrants will receive a gift!

DATE: Wednesday, 30 October 2013

TIME: 2.45PM - 5.00PM

VENUE: Breakthrough & Discovery Theatrettes, Matrix Building Level 4, Biopolis, Singapore 138671

Programme

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| 2.45PM | Registration |
| 3.30PM | Welcome Address
Mr. Philip Lim, CEO, ETPL |
| 3.45PM | Speech by
Prof. Phillip Allen Sharp, Distinguished Technopreneur Speaker
"Biogen to Alnylam and Convergence; Science and Innovation" |
| 4.25PM | In conversation with DTS
Moderator: Prof. Bertil Andersson, President, NTU |
| 5.00PM | Networking and Refreshments |

About the Speaker



Phillip A. Sharp is Institute Professor and faculty member of the Koch Institute and the Department of Biology at MIT. He joined the MIT faculty in 1974 after completing his postdoctoral training first at Caltech and later at Cold Spring Harbor. Sharp's research on the molecular biology of gene expression relevant to cancer and the mechanisms of RNA splicing provided one of the first indications of the startling phenomenon of "discontinuous genes" in mammalian cells. For this work, Sharp was awarded the 1993 Nobel Prize in Physiology or Medicine in addition to other numerous awards and honours.

He is elected member of the National Academy of Sciences, the Institute of Medicine, the American Academy of Arts and Sciences, foreign Fellow of the Royal Society of the UK, Honorary Member of the National Academy of Sciences-Republic of Korea, and is also the recipient of the National Medal of Science.

He served as director of the Center for Cancer Research, now the Koch Institute, from 1985 to 1991, was Head of the Department of Biology from 1991 to 1999 and was the Founding Director of the McGovern Institute from 2000 to 2004. A native of Kentucky, Dr. Sharp obtained his Ph.D. in chemistry from the University of Illinois in 1969. He is co-founder of Biogen (1978; now Biogen Idec) and Alnylam Pharmaceuticals (2002).

About the Moderator



An internationally renowned scientist, Prof Bertil Andersson became President of Nanyang Technological University (NTU) in 2010. An Imperial Fellow, Prof Andersson is the key driver of Singapore's new medical school jointly set up by NTU and Imperial College London. He was previously Chief Executive of the European Science Foundation, Rector of Linköping University as well as Chairman of the Nobel Committee for Chemistry and a Trustee of the Nobel Foundation.

Prof Andersson serves on many Boards, including the Royal Swedish Academy of Sciences, European Molecular Biology Organisation, the Australian Academy of

Science, Academia Europaea and Royal Swedish Academy of Engineering Sciences. The winner of the Wilhelm Exner Medal, he has a PhD from Lund University and several honorary doctorates.

About DTS

The DTS Forum Series was launched in 2008 by ETPL to seed innovation and entrepreneurship in Singapore. DTS invites luminaries that have excelled in innovative value creation to engage entrepreneurs, industry professionals, researchers, scholars and students and inspire them to explore and unleash the vast potential of technological innovation.

About ETPL

ETPL is the technology transfer arm of the Agency for Science, Technology and Research (A*STAR), Singapore's lead agency for fostering world-class scientific research and talent. A*STAR oversees 14 biomedical sciences, physical sciences and engineering research institutes, and six consortia and centres. As a one-stop resource, ETPL supports A*STAR in transforming the economy through driving innovation and commercializing its research outcomes. Also known as Exploit Technologies Pte Ltd, ETPL enhances the research output of A*STAR scientists by translating their inventions into marketable products or processes. Through shaping and facilitating licensing deals and spin-offs, ETPL actively engages industry leaders and players to commercialise A*STAR's technologies and apply them to building ecosystems that benefit business, industry and economy.

About the Singapore Workforce Development Agency

The Singapore Workforce Development Agency (WDA) enhances the competitiveness of our workforce by encouraging workers to learn for life and advance with skills. In today's economy, most jobs require not just knowledge, but also skills. WDA collaborates with employers, industry associations, the Union and training organisations, to develop and strengthen the Continuing Education and Training system that is skills-based, open and accessible, as a mainstream pathway for all workers - young and older, from rank and file to professionals and executives - to upgrade and advance in their careers and lives. For more information, please visit www.wda.gov.sg.

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