



## Centre for Biosystems Science and Engineering

*Seminar*

### ***Translational Research: Challenges & Opportunities in the Continuum from Bench to Bedside***

*on*

19th January 2017,

2:30 PM, MRDG Seminar Hall, 1st Floor, Biological Sciences Building.

*by*

***Prof. Shervanthi Homer-Vanniasinkam***

Professor of Engineering and Surgery, University College London, United Kingdom.

Translational research (TR) aims to harness the discoveries in fundamental, experimental science to benefit human health and promote wellbeing. In this talk, the speaker will share her experience as a clinician-scientist working across the disciplines of life and engineering sciences, in her endeavour to promote TR.

Areas that will be covered include the speaker's own (early) preclinical research in ischaemia-reperfusion injury and the establishment of in vitro cellular models of hypoxia and reoxygenation induced tissue damage, vascular biology as pertaining to aspects of the oxidised LDL receptor LOX-1 in the pathogenesis of atherosclerosis, vascular tissue engineering and regenerative medicine. The speaker will also share her collaborative work with colleagues in engineering, in the fields of nano printing sensors, multiscale vascular modelling and, most recently, intravascular haptics.

The speaker will also delve into her keen interest in the education of students (both under- and post-graduate) and in developing and exploiting their entrepreneurial and innovative capabilities; describe the Leeds medical student scholarship programme (EXSEL) which was developed and launched in 2006, and her aspirations for this initiative. The talk will conclude with a preview of the speaker's work in global health.

### **About the speaker**

Prof. Shervanthi Homer-Vanniasinkam currently holds many appointments including Consultant Vascular Surgeon, Leeds Vascular Institute, Leeds General Infirmary; Clinical Sub-Dean, University of Leeds Medical School & Director of EXSEL@Leeds; Professor of Engineering and Surgery, University College London. She obtained her BSc from Bangalore University in 1976, MBBS from Mysore University in 1981 and MD from University of Leeds in 1999. She has recently delivered the inaugural Alexandre Chao Memorial Lecture at ASVS 2016 in Singapore.