

Humanized Mouse Model: A Tool to Address Human Specific Questions in Biomedical Research

ABOUT THE LECTURE

With an increasing human population, medical research is pushed to progress into an era of precision therapy with high demand of human specificity and accuracy. Through adoptive transfer of human stem cells into immunodeficient mice, we have established various humanized mouse models, with stable human blood, liver and other biological systems. These humanised mice are at the very heart of this new forefront where it is acutely required to decipher human-specific disease pathogenesis and test an array of novel therapeutics. Our humanized mouse models have been used to successfully support the in vivo studies of many human diseases including infectious pathogens, cancers, metabolic diseases and autoimmune diseases and closely recapitulate disease pathogenesis and drug mechanisms in humans. This presentation will discuss our current progress in humanized mouse technology development and applications for future use.

- Speaker:** **Dr Qingfeng Chen**
Senior Principal Investigator, Humanized Mouse Unit
Institute of Molecular and Cell Biology, A*STAR
- Host:** **Prof Patrick Casey**
Senior Vice Dean, Office of Research
Duke-NUS Medical School
- Date:** **Tuesday, 27 August 2019**
- Time:** **12.00 PM - 1.00 PM**
(Light refreshments will be served at 11.30 AM)
- Venue:** **Duke-NUS Medical School**
Amphitheatre, Level 2
- Contact Person:** **Ms Kathleen Chan, Duke-NUS Research Affairs Department**
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ABOUT THE SPEAKER

Dr Qingfeng Chen received his B.S. in 2003 and Ph.D in June 2008 from University of Science and Technology of China. In July 2008, he joined in Singapore-MIT Alliance for Research and Technology (SMART) to pursue postdoctoral research on developing humanized mouse models. In 2010, he was promoted as research scientist in SMART. He joined in Institute of Molecular and Cell Biology, A*STAR as a group leader in January 2012 to establish humanized mouse unit. He is currently a Senior Principal Investigator in IMCB and Adjunct Associate Professor in Department of Physiology, Yong Loo Lin School of Medicine, National University of Singapore. Dr Qingfeng Chen is also an awardee of Gilead Sciences International Research Scholar and Singapore National Research Foundation Fellowship. His research interest is developing humanized mouse models for the study of human infectious diseases, immunology, autoimmune diseases and metabolic diseases.



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