



巴斯德讲坛-精英系列

Pasteur Colloquium-Elite

Developing humanized mouse models for the study of human diseases and drug discovery



[Speaker] Dr. Qingfeng Chen

[Time] 10:00-11:30PM, JAN. 17th, 2018

[Host] Prof. Qibin Leng

[Venue] A0201, Life Science Research Building

[Speaker Introduction]

2015 to present	Joint Principal Investigator, National Cancer Centre, Singapore
2012 to present of Singapore	Assistant professor, Department of Microbiology and Immunology, National University of Singapore
2012 to present	Principal Investigator, Institute of Molecular and Cell Biology, ASTAR, Singapore
2011 to 2011	Research Scientist, Singapore-MIT Alliance for Research and Technology ID-IRG
2008 to 2010	Postdoctoral Associate, Singapore-MIT Alliance for Research and Technology ID-IRG

[Abstract]

With an increasing human population, medical research is pushed to progress into an era of precision therapy. 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 seminar will focus on the background of humanised mice, disease modelling and human-specific mechanisms and therapeutics tested on this platform for future clinical use.



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