The Singapore Bioimaging Consortium (SBIC)
presents a seminar
on

# "Genetically Modified Pig Models for Biomedicine"

**Speaker:** **Dr Lai Liangxue**
**Guangzhou Institutes of Biomedicine and Health**
**Chinese Academy of Sciences**
**China**

**Host :** **Dr Han Weiping**
**Date :** **Thursday, 13 July 2017**
**Time :** **12.00pm – 1.00pm**
**Venue :** **SBIC Seminar Room**
**11 Biopolis Way**
**Level 2, Helios Building, Singapore 138667**
**(Please enter via Level 1)**

## Abstract

Animal models that mimic human diseases are essential for validation of effectiveness and safety of new drug and stem cell therapy. Many human diseases are caused by genetic mutations that allow the generation of transgenic animal models for these diseases. Many of mouse models are not able to mimic human diseases authentically. Pigs are more similar to the human in terms of anatomy, size, growth, and development than rodent. In addition, pigs have a long life span, which is advantageous in studying development process of diseases. Thus, pigs are considered more suitable models for some human diseases. In this presentation, the speaker will report a series of genetically modified pig models for biomedicine made in Guangzhou Institute of Biomedicine and Health, CAS, China.

## About the Speaker

Dr Lai's lab is focusing on transgenic animals, animal cloning human and animal stem cells. Dr Lai and his team made the first knock-out pigs in the world by using nuclear transfer approach, in which α-1,3-Galactosyltransferase gene was deleted, and considered as a major breakthrough in the organ transplantation from pigs to human. As of now, his team has produced more than 40 kinds of transgenic pigs with important applications in biomedicine and agriculture. He has published more than 100 peer review papers in the international journals including "Science", "PNAS", "Nature Biotechnology" and "cell research".

***Admission is free and all are welcome ---***