The Singapore Bioimaging Consortium (SBIC)
and
The Institute for Molecular and Cell Biology (IMCB)
jointly present a seminar
on

"Heart Failure with preserved Ejection Fraction: Preclinical advances in understanding the Cardiomyocyte Etiology"

Speaker: **Lea Delbridge**
Professor and Head
Cardiac Phenomics Laboratory
University of Melbourne

Host : **Dr Han Weiping**
Date : **Wednesday, 23 November 2016**
Time : **11.00am – 12.00noon**
Venue : **SBIC Seminar Room**
11 Biopolis Way
Level 2, Helios Building, Singapore 138667
(Please enter via Level 1)

Abstract

Among the growing numbers of patients with heart failure, up to half have heart failure with preserved ejection fraction (HFpEF). Established treatments for heart failure with reduced ejection fraction (HFrEF) have proven ineffective for HFpEF. Progress in understanding the etiology of HFpEF has been impeded by limited availability of appropriate pre-clinical models. Recently, the Cardiac Phenomics Laboratory at The University of Melbourne has validated a new rodent genetic model of HFpEF – where heart failure develops with aging and is associated with hypertrophy. This work has revealed that cardiomyocyte pathogenic phenotypes in HFpEF are different from those typical of systolic dysfunction where ejection fraction is reduced. With this novel preclinical HFpEF model, opportunities to explore co-morbidity contributions and evaluate new directions for HFpEF therapies become possible.

About the Speaker

Prof Lea Delbridge heads the Cardiac Phenomics Laboratory in the Department of Physiology at the University of Melbourne. Her research goals are to understand structural and functional cardiopathology in different forms of diabetic and hypertrophic cardiomyopathy. Her current work is supported by National Health and Medical Research Council and Australian Research Council funding. Prof Delbridge has published ~ 125 peer reviewed papers in many top-discipline journals. She completed her PhD at the University of Melbourne, and had training positions at Dalhousie University (Halifax, Canada) and at Loyola University (Chicago, USA) where she was appointed an International Fellow of the American Heart Association. Prof Delbridge is elected World Council Secretary General of the International Society of Heart Research (ISHR) and was President of the Australasian ISHR Section 2007-2013. She is an elected Fellow of the Cardiac Society of Aust & New Zealand and Council member of the Australian Physiological Society (AuPS). She is an editorial

board member for a number of international journals, including Journal of Molecular & Cellular Cardiology, Frontiers in Physiology and the Am J Physiol (Heart.).

Admission is free and all are welcome ---