


# Group Research

The major research focus of the lab is on nano lipid membrane vesicles that are produced and secreted naturally by cells or synthesized in the lab. Our interest in natural vesicles targets primarily extracellular vesicles (EVs) secreted by stem cells or cancer cells, specifically their properties, biogenesis and applications in therapy and diagnostics. Synthetic lipid membrane vesicles are used to complement our research in natural vesicles and the applications EVs in in therapy and diagnostics. We work closely and actively with academic scientific and clinical communities both nationally and internationally. We also collaborate with industry to translate and commercialise nano membrane vesicle technology for therapeutics, diagnostics and R&D.




## Lab Members Achievements




Differential distribution of pre-eclampsia biomarkers in two distinct populations of membrane vesicles from plasma  
**Tan Soon Sim**<sup>1</sup>, S.K.S. Newman<sup>2</sup>, K.H. Tan<sup>3</sup> and S.K. Lim<sup>1</sup>  
<sup>1</sup>Institute of Medical Biology, Singapore; <sup>2</sup>School of Biological Sciences, Nanyang Technological University, Singapore; <sup>3</sup>Department of Maternal Fetal Medicine, KK Women's and Children's Hospital, Singapore


**Tan Soon Sim**  
 Oral Presenter





**ISEV 2013**  
 Boston, USA  
 17-20 April, 2013




**Lai Ruenn Chai**  
 Oral Presenter  
 "Mesenchymal Stem Cell Exosome: A Novel Stem Cell-Based Therapy"



**ISSCR** 10th Annual Meeting  
 International Society for Stem Cell Research  
 June 13 - 16, 2012  
 Pacifico Yokohama • Yokohama, Japan





**Ronne Yeo**  
 Best Poster Presentation Award




**ISEV** INTERNATIONAL SOCIETY FOR EXTRACELLULAR VESICLES


ISEV 2014  
 Ballenrod, The Netherlands  
 April 30th - May 3rd  
 Educational Day April 29th

**Dorival Rodrigues**  
 Junior Member Scholarship Award



**International Society for Extracellular Vesicles**  
 ISEV2017 - Annual Meeting



Toronto, Canada  
 18-21 May, 2017  
 www.isev.org



**Agnes Reiner**  
 1<sup>st</sup> place (Young Innovator's Award)  
 Global Falling Walls 2017



**FALLING WALLS**  
 FALLING WALLS LAB 2017