

**THE MINA & EVERAD GOODMAN FACULTY OF LIFE SCIENCES  
BAR-ILAN UNIVERSITY  
SPECIAL SEMINAR**

**Professor Ren-He XU  
Dean Faculty of Health Sciences,  
University of Macau**



**Title: "The challenge and promise of human pluripotent stem cell-based therapy"**

**The seminar will be on: 20.12.18**

**CAIR Institute, Building 208, seminar room**

**Research Interests:**

We are interested in stem cell biology and application. We first discovered the key factors to sustain self-renewal and prolonged culture of human embryonic stem cells (hESCs) without the need for animal feeder cells (*Nat. Biotechnol.* 2002; *Nat. Methods* 2005; *Cell Stem Cell* 2008) and revealed recurrent copy number variations in human induced pluripotent stem cells (*Nat. Biotechnol.* 2011). Recently, we treated animal models of multiple sclerosis and colitis with hESC-differentiated mesenchymal stem cells (EMSC) with superior efficacy (*Stem Cell Reports* 2014; *Stem Cells* 2016) and reported a novel method for stem cell transportation under ambient conditions without need for the costly and inconvenient cryopreservation methods (*Biomaterials* 2017). Our current research interests include

1. Exploring novel therapeutical applications of EMSC
2. Elucidating the fate of EMSC in host under various pathological conditions
3. Addressing the immunogenicity and biosafety concerns of hESC-derived allografts