

15:15 – 16:45

## Concurrent Session I: Intracellular Iron Trafficking

*Location: D. Maria*

Chairs: Fumio Kishi, Kurashiki, Okayama, Japan and Prem Ponka, Montreal, PC, Canada

- 15:15 3 **LYSOSOMAL PROTEOLYSIS IS THE PRIMARY DEGRADATION PATHWAY FOR CYTOSOLIC FERRITIN AND IS NECESSARY FOR IRON EXIT FROM FERRITIN**  
Yinghui Zhang, MS<sup>2</sup>, Marc Mikhael, BS<sup>3</sup>, Yiye Li, PhD<sup>4</sup>, Shan Soe-Lin, MS<sup>3</sup>, Bo Ning, MS<sup>2</sup>, Guangjun Nie<sup>1</sup>, Yuliang Zhao, PhD<sup>2</sup> and Prem Ponka, PhD, MD<sup>5</sup>  
<sup>1</sup>National Center for Nanoscience and Technology; <sup>2</sup>CAS Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety National Center for Nanoscience and Technology of China, Beijing 100190; <sup>3</sup>Lady Davis Institute for Medical Research, Sir Mortimer B. Davis Jewish General Hospital and Departments of Physiology and Medicine, McGill University, 3755 Cote Ste-Catherine Road, Montreal, Quebec H3T 1E2, Canada; <sup>4</sup>1CAS Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety National Center for Nanoscience and Technology of China, Beijing 100190; <sup>5</sup>Lady Davis Institute for Medical Research, Sir Mortimer B. Davis Jewish General Hospital and Departments of Physiology and Medicine, McGill University  
(Presented By: Guangjun Nie)
- 15:30 4 **LIVE IMAGING OF METAL-ION TRANSPORT IN OOCYTES EXPRESSING HUMAN DIVALENT METAL-ION TRANSPORTER-1 (DMT1): SUBSTRATE PROFILE AND SELECTIVITY**  
Bryan Mackenzie, PhD, Anthony C. Illing, Christopher L. Cunningham and Ali Shawki  
University of Cincinnati College of Medicine  
(Presented By: Bryan Mackenzie, PhD)
- 15:45 5 **IMAGING OF IRON ENTRY AND IRON-MEDIATED TOXICITY IN PRIMARY NEURONS AND ASTROCYTES**  
Franca Codazzi, PhD<sup>1</sup>, Ilaria Pelizzoni, Dr<sup>2</sup>, Romina Macco, Dr<sup>1</sup>, Marco Francesco Morini<sup>1</sup>, Ilaria Vitali<sup>1</sup>, Federico Maria Rossi<sup>1</sup>, Alessandra Consonni, Dr<sup>1</sup>, Barbara Bettegazzi, Dr<sup>1</sup>, Daniele Zacchetti, PhD<sup>4</sup> and Fabio Grohovaz, Professor<sup>4</sup>  
<sup>1</sup>S. Raffele Scientific Institute; <sup>2</sup>Italian Institute of Technology (IIT)  
(Presented By: Franca Codazzi, PhD)
- 16:00 6 **CHARACTERIZATION OF HOLO-TF-REGULATED TFR2 TRAFFICKING**  
Juxing Chen, PhD, Jinzhi Wang, MS, Kathrin Meyers, BS and Caroline Enns, PhD  
Oregon Health & Science University, Portland, OR  
(Presented By: Juxing Chen, PhD)
- 16:15 7 **ABCB10 INTERACTS WITH MITOFERRIN-1 (SLC25A37) TO ENHANCE ITS PROTEIN STABILITY AND FUNCTION TO IMPORT MITOCHONDRIAL IRON IN ERYTHROBLASTS**  
Wen Chen, PhD<sup>1</sup>, Prasad Paradkar, PhD<sup>2</sup>, Liangtao Li, MD<sup>2</sup>, Nathaniel Langer, BA<sup>1</sup>, Eric Pierce, BA<sup>1</sup>, Iman Schultz, PhD<sup>1</sup>, Brigham Hyde, PhD<sup>3</sup>, Orian Shirihai, MD, PhD<sup>3</sup>, Jerry Kaplan, PhD<sup>2</sup> and Barry Paw, MD, PhD<sup>1</sup>  
<sup>1</sup>Harvard Medical School; <sup>2</sup>University of Utah; <sup>3</sup>Boston University  
(Presented By: Barry Paw, MD, PhD)
- 16:30 8 **EXPRESSION OF MITOCHONDRIAL FERRITIN AFFECTS JAK2/STAT5 PATHWAY IN K562 CELLS**  
Sonia Levi, PhD, Alessandro Campanella, PhD, Elisabetta Rovelli, PhD, Benedetta Erba, Student, Anna Cozzi, PhD and Paolo Santambrogio, PhD  
Vita-Salute San Raffaele University  
(Presented By: Sonia Levi, PhD)