

15:15 – 16:45

Concurrent Session XI: Iron, Brain and Neurodegeneration

Location: Arquivo

Chairs: James Connor, Hershey, PA, USA and Roberta Ward, Louvain-la-Neu, Belgium

- 15:15 73 **A NOVEL TRANSFERRIN/TFR2-MEDIATED MITOCHONDRIAL IRON TRANSPORT SYSTEM IS DISRUPTED IN PARKINSON'S DISEASE**
Pier Mastroberardino, PhD¹, Maxx Horowitz¹, Ranjita Betarbet, PhD², Claire-Anne Gutekunst, PhD², Marla Gearing, PhD², John Q. Trojanowski, PhD³, Marjorie Anderson, PhD⁴, Charleen T. Chu, MD, PhD¹, Junmin Peng, PhD² and John T Greenamyre, MD, PhD¹
¹University of Pittsburgh; ²Emory University; ³University of Pennsylvania; ⁴University of Washington
(Presented By: Pier Mastroberardino, PhD)
- 15:30 74 **DOMINANT MUTANTS OF CERULOPLASMIN INDUCE GOLGI FRAGMENTATION AND IMPAIRMENT OF THE COPPER LOADING MACHINERY IN ACERULOPLASMINEMIA**
Giovanni Musci, Prof, Nunziata Maio, Gianluca Rizzo, Giovanni De Francesco, Tiziana Persichini, Marco Colasanti, Fabio Polticelli and Maria Carmela Bonaccorsi di Patti
University Roma Tre
(Presented By: Giovanni Musci, Prof)
- 15:45 75 **HUMAN AMYLOID-B BINDS HEME TIGHTLY: WHY HUMANS BUT NOT RODENTS DEVELOP ALZHEIMER'S DISEASE**
Hani Atamna
The Commonwealth Medical College, Pennsylvania, USA
(Presented By: Hani Atamna)
- 16:00 76 **REGULATION OF IRON TRANSPORT ACROSS THE BLOOD BRAIN BARRIER**
James Connor, PhD¹, Padmavathi Ponnuru, PhD², Becky Webb, BS³, David Antonetti, PhD⁴, Anthony Carruthers, PhD⁵ and Ian Simpson, PhD⁶
¹Penn State University College of Medicine; ²Dept. of Neurosurgery, Penn State University College of Medicine, Hershey, PA; ³Dept. of Neurosurgery, Penn State University College of Medicine, Hershey, PA; ⁴Dept. of Cellular and Molecular Physiology, Penn State University College of Medicine, Hershey, PA; ⁵Department of Biochemistry, UMMS, Worcester, MA; ⁶Department of Neural and Behavioral Sciences Penn State University College of Medicine, Hershey, PA
(Presented By: James Connor, PhD)
- 16:15 77 **THE CHOROID PLEXUS IS A SITE FOR REGULATING BRAIN IRON HOMEOSTASIS**
Fernanda Marques, Ana Mendanha Falcao, BSc, Joao Carlos Sousa, PhD, Giovanni Coppola, MD, PhD, Daniel Geschwind, MD, PhD, Nuno Sousa, MD, PhD, Margarida Correia-Neves, PhD and Joana Almeida Palha, PhD
University of Minho, Life and Health Sciences Research Institute (ICVS), Portugal
(Presented By: Fernanda Marques)
- 16:30 78 **DEFERIOXAMINE AND DEFERIRSIROX TRAVERSE THE BLOOD BRAIN BARRIER AND PREVENT DEGENERATION OF DOPAMINE NEURONS IN THE 6-HYDROXY DOPAMINE MODEL OF PARKINSON'S DISEASE**
David Dexter, BSc, PhD¹, Hugh Chan, BSc¹, Robert Crichton, BSc, PhD, FRSC² and Roberta Ward, BSc, PhD²
¹Imperial College London; ²University of Louvain, Belgium
(Presented By: David Dexter, BSc, PhD)