

15:15 – 16:45

**Concurrent Session VII: Novel Aspects of Iron and Infection**

*Location: D. Maria*

Chairs: Ana Tomás, Porto, Portugal and Chinmay Mukhopadhyay, New Delhi, India

- 15:15 45 **CHARACTERIZATION AND EXPRESSION ANALYSIS OF IMMUNE-RELATED IRON GENES DURING EXPERIMENTAL IRON OVERLOAD AND INFECTION IN FISH**  
João Neves, MSc<sup>1</sup>, Jonathan Wilson, PhD<sup>2</sup> and Pedro Rodrigues, PhD<sup>3</sup>  
<sup>1</sup>Instituto de Biologia Molecular e Celular, Universidade do Porto, Portugal; <sup>2</sup>CIIMAR; <sup>3</sup>IBMC and ICBAS  
(Presented By: João Neves, MSc)
- 15:30 46 **THE HEMOCHROMATOSIS-ASSOCIATED HFE MUTATION PROTECTS MICE FROM SALMONELLA TYPHIMURIUM INFECTION VIA INDUCTION OF LIPOCALIN 2**  
Manfred Nairz<sup>1</sup>, Igor Theurl<sup>2</sup>, Andrea Schroll<sup>2</sup>, Milan Theurl<sup>2</sup>, Sabine Mair<sup>2</sup>, Thomas Sonnweber<sup>2</sup>, Gernot Fritsche<sup>2</sup>, Ewald Lindner<sup>2</sup>, Klaus Hantke<sup>3</sup>, Shizuo Akira<sup>4,5</sup> and Günter Weiss<sup>2</sup>  
<sup>1</sup>Internal Medicine I; <sup>2</sup>Department of Internal Medicine I, Clinical Immunology and Infectious Diseases, Medical University of Innsbruck, 6020 Innsbruck, Austria; <sup>3</sup>Department of Microbiology/Membrane Physiology, University of Tübingen, 72076 Tübingen, Germany; <sup>4</sup>Department of Host Defense, Osaka University, and Exploratory Research for Advanced Technology (ERATO), Japan; <sup>5</sup>Science and Technology Corporation, Osaka 565-0871, Japan  
(Presented By: Manfred Nairz)
- 15:45 47 **MYCOBACTERIA-INDUCED ANAEMIA REVISITED: A MOLECULAR APPROACH REVEALS THE INVOLVEMENT OF NRAMP-1 AND LIPOCALIN-2, BUT NOT OF HEPcidIN**  
Pedro Rodrigues, PhD<sup>2</sup>, Sandro Gomes, BsSc<sup>3</sup>, João Neves, BsMSc<sup>3</sup>, Sandra Gomes-Pereira, PhD<sup>3</sup>, Margarida Correia-Neves, PhD, VetD<sup>4</sup>, Cláudio Nunes-Alves, BSsc<sup>4</sup>, Rui Appelberg, PhD, MD<sup>5</sup>, Martina Muckenthaler, PhD<sup>6</sup> and Maria Salomé Gomes, PhD<sup>1</sup>  
<sup>1</sup>IBMC and ICBAS – Universidade do Porto; <sup>2</sup>IBMC and ICBAS – Universidade do Porto, Porto, Portugal; <sup>3</sup>IBMC – Universidade do Porto, Porto, Portugal; <sup>4</sup>Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, Braga, Portugal.; <sup>5</sup>IBMC and ICBAS – Universidade do Porto; <sup>6</sup>Department of Pediatric Oncology, Haematology and Immunology, University Hospital of Heidelberg, Heidelberg, Germany  
(Presented By: Maria Salomé Gomes, PhD)
- 16:00 48 **HEME SENSITIZATION TO TNF-MEDIATED PROGRAMMED CELL DEATH DICTATES THE OUTCOME OF PLASMODIUM INFECTION IN MICE**  
Raffaella Gozzelino, PhD<sup>1</sup>, Elsa Seixas, PhD, Ângelo Chora, PhD, Ana Ferreira, PhD, Gabriela Silva, PhD, Rasmus Larsen, PhD, Sofia Rebelo, PhD, Carme Penido, PhD, Neal Smith, MD, PhD<sup>2</sup>, Antonio Coutinho, MD, PhD and Miguel Soares, PhD  
<sup>1</sup>Instituto Gulbenkian de Ciência; <sup>2</sup>Dept. of Pathology, Massachusetts General Hospital, Boston MA, USA  
(Presented By: Raffaella Gozzelino, PhD)
- 16:15 49 **THE AVIAN LIPOCALIN EX-FABP IS A SIDEROPHORE BINDING ANTIBACTERIAL PROTEIN**  
Fiorella Descalzi, PhD<sup>1</sup>, Matthew C. Clifton, PhD<sup>2</sup>, Ranieri Cancedda, MD<sup>3</sup>, Tricia M. Hoette, PhD<sup>4</sup>, Kennet N. Raymond, PhD<sup>4</sup> and Roland K. Strong, PhD<sup>2</sup>  
<sup>1</sup>IBFM & Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy; <sup>2</sup>Division of Basic Sciences, Fred Hutchinson Cancer Research Center, Seattle, WA, USA; <sup>3</sup>Istituto Nazionale per la Ricerca sul Cancro, University of Genova, Genova, Italy; <sup>4</sup>Department of Chemistry, University of California, Berkeley, California, USA  
(Presented By: Fiorella Descalzi, PhD)
- 16:30 50 **HEPCIDIN INDUCTION BY PATHOGEN-ASSOCIATED STIMULI**  
Andrew Armitage<sup>2</sup>, Lucy Eddowes<sup>2</sup>, Lisa Schimanski<sup>2</sup>, Alain Townsend<sup>2</sup> and Hal Drakesmith<sup>1</sup>  
<sup>1</sup>Oxford University; <sup>2</sup>Molecular Immunology Group, WIMM, Oxford University  
(Presented By: Hal Drakesmith, PhD)