

14:00 – 15:15

## **Poster Session II Presentations**

*Location: Arquivo*

- Poster# 95**     **TFR2 BETA ISOFORMS ARE DIFFERENTIALLY LOCALIZED IN CELLS AND RESPOND DIFFERENTLY TO IRON TREATMENT**  
Rosa Maria Pellegrino<sup>1</sup>, Ilaria Defilippi, Dr<sup>2</sup>, Enrico Bracco, PhD<sup>2</sup>, Sonia Carturan, Dr<sup>2</sup>, Antonietta Palmieri<sup>2</sup>, Daniela Cilloni, MD<sup>2</sup>, Giuseppe Saglio, MD<sup>2</sup> and Antonella Roetto, PhD<sup>2</sup>  
<sup>1</sup>University of Torino; <sup>2</sup>University of Torino, Department of Clinical and Biological Science, Az Osp San Luigi Gonzaga, Orbassano Torino Italy  
(Presented By: Rosa Maria Pellegrino)
- Poster# 96**     **CHARACTERIZATION OF MOUSE SERUM FERRITIN**  
Lyora A. Cohen, MSc, Avigail Morgenstern and Esther G. Meyron-Holtz  
Israel Institute of Technology, Technion  
(Presented By: Lyora A. Cohen, MSc)
- Poster# 97**     **POSTNATAL INCREASES IN HEPcidIN EXPRESSION AT BIRTH AND AT WEANING ARE DEPENDENT ON TRANSFERRIN RECEPTOR 2**  
Heather Morgan, MD, Robert Britton, PhD, Mary Migas, MS, Gail Palmer, BS, Abdul Waheed, PhD and Robert Fleming, MD  
Saint Louis University School of Medicine  
(Presented By: Robert Fleming, MD)
- Poster# 98**     **THE ROLE OF DCYTB IN INTESTINAL IRON ABSORPTION**  
Jeehyea Choi, Abas Laftah, Gladys Oluyemisi Latunde-Dada, Andrew McKie and Robert Simpson  
King's College London  
(Presented By: Jeehyea Choi)
- Poster# 99**     **ERYTHROPOIETIN INCREASES IRON ABSORPTION BY HUMAN INTESTINAL EPITHELIAL CELLS**  
Bomee Chung<sup>1</sup>, Timothy Chaston, PhD<sup>1</sup>, Chiara Rapisarda, BSc<sup>1</sup>, Katayoun Pourvali, BSc<sup>1</sup>, Carin Da Silva, Bsc<sup>1</sup>, Surjit Kaila Srail, PhD<sup>2</sup> and Paul Sharp, PhD<sup>1</sup>  
<sup>1</sup>King's College London; <sup>2</sup>University College London  
(Presented By: Bomee Chung)
- Poster# 100**    **ALTERNATIVE FERRITIN MRNA TRANSLATION UNDER STRESS CONDITIONS VIA INTERNAL INITIATION**  
Alina Daba<sup>1</sup>, Anja Hausmann, PhD<sup>1</sup>, Antonis Koromilas, PhD<sup>2</sup> and Kostas Pantopoulos, PhD<sup>2</sup>  
<sup>1</sup>Lady Davis Institute for Medical Research; <sup>2</sup>Lady Davis Institute for Medical Research and McGill University  
(Presented By: Alina Daba)
- Poster# 101**    **IN-CELL-WESTERN ANALYSIS OF ENDOGENOUS FERROPORTIN REGULATION IN PRIMARY MACROPHAGES**  
Anne Auriac, Master, Alexandra Willemetz, Master and François Canonne-Hergaux, PhD  
UPR2301, CNRS, Centre de recherche de GIF-sur-Yvette, France  
(Presented By: Anne Auriac, Master)
- Poster# 102**    **ROLE OF MUCIN 13 IN IRON METABOLISM**  
Marizela Saric, Dr, Abas Laftah, Dr, Oluyemisi Latunde-Dada, Dr, Patarabutr Masaratana, MD, Robert Simpson, Dr and Andrew T. McKie, Prof  
Nutritional Sciences Division, King's College London  
(Presented By: Marizela Saric, Dr)
- Poster# 103**    **A NOVEL MUTATION IN INTESTINAL ISOFORM OF DIVALENT METAL TRANSPORTER 1 (DMT 1A)**  
Luigia De Falco, Francesca Totaro, Mrs, Maria Nunzia Scoppettuolo, Mrs, Immacolata Andolfo, Mrs, David Beneitez Pastor, MD and Achille Iolascon, MD, PhD  
Ceinge Advanced Biotechnologies  
(Presented By: Luigia De Falco)
- Poster# 104**    **UPSTREAM STIMULATORY FACTORS (USF-1/USF-2) REGULATE HUMAN HEMOJUVELIN GENE EXPRESSION**  
Mohamed Salama, Henry Bayele, PhD and Kaila Srail, PhD  
University College London  
(Presented By: Mohamed Salama)
- Poster# 105**    **REDOX CONTROL OF IRON REGULATORY PROTEIN 2 STABILITY**  
Anja Hausmann<sup>1</sup>, Julie Lee, MSc<sup>1</sup> and Kostas Pantopoulos, PhD<sup>2</sup>  
<sup>1</sup>Lady Davis Institute for Medical Research; <sup>2</sup>Lady Davis Institute for Medical Research and McGill University  
(Presented By: Anja Hausmann)
- Poster# 106**    **STRUCTURAL STUDIES OF THE SOUL/HBP FAMILY OF HEME BINDING PROTEINS**  
Brian Goodfellow, PhD, Filipe Freire, BSc, Susana Aveiro, BSc, Maria João Romão, PhD, Ana Luisa Carvalho, PhD, Vitor Felix, PhD, Nuno Micaelo, PhD, Gloria Ferreira, PhD and Anjos Macedo, PhD  
Universidade de Aveiro  
(Presented By: Brian Goodfellow, PhD)
- Poster# 107**    **STRUCTURAL ANALYSIS OF HEMIN DEMETALLATION BY L-CHAIN APOFERRITINS**  
Robert Crichton, BSc, PhD, FRSC, Natalia De Val, BSc, PhD, Changkee Lim, BSc, PhD and Jean-Paul Declercq, BSc, PhD  
University of Louvain  
(Presented By: Robert Crichton, BSc, PhD, FRSC)

- Poster# 108 DEFINITION OF THE RESIDUES REQUIRED FOR THE INTERACTION BETWEEN GLYCINE-EXTENDED GASTRIN AND TRANSFERRIN IN VITRO**  
Suzana Kovac, PhD<sup>2</sup>, Audrey Ferrand, PhD<sup>2</sup>, Jean-Pierre Estève, PhD<sup>3</sup>, Anne Mason, PhD<sup>4</sup> and Graham Baldwin, PhD, DSc<sup>1</sup>  
<sup>1</sup>University of Melbourne; <sup>2</sup>University of Melbourne Department of Surgery, Austin Health, Melbourne, Australia; <sup>3</sup>INSERM U.858, Plateforme d'interaction moléculaire, I2MR, Institut Louis Bugnard, IFR31, Toulouse, France; <sup>4</sup>University of Vermont, College of Medicine, Department of Biochemistry, Vermont, USA  
(Presented By: Graham Baldwin)
- Poster# 109 DMT1 EXPRESSION CAN LEAD TO ACCUMULATION OF METALS IN CELLS**  
Michael Garrick, PhD<sup>1</sup>, Lin Zhao, MD<sup>1</sup>, Saied Ghadersohi<sup>1</sup>, Jackie Stonehuerer, BS<sup>2</sup>, Andy Ghio, MD<sup>2</sup> and Laura Garrick, PhD<sup>1</sup>  
<sup>1</sup>SUNY at Buffalo; <sup>2</sup>EPA  
(Presented By: Michael Garrick, PhD)
- Poster# 110 AGGREGATION AND DISSOCIATION OF PEA SEED FERRITIN REGULATED BY PH AND FERRIC ION**  
Guanghua Zhao, PhD, Chaorui Li, PhD, Xiaoping Fu, PhD, Fang Chen, PhD and Xiaosong Hu, PhD  
China Agricultural University  
(Presented By: Guanghua Zhao, PhD)
- Poster# 111 THE EFFECT OF COPPER LOADING AND DEPLETION ON IRON TRANSPORTER EXPRESSION IN CACO-2 CELLS**  
Katayoun Pourvali and Paul Sharp, PhD  
King's College London  
(Presented By: Katayoun Pourvali)
- Poster# 112 ACTIVATION OF AN UNFOLDED PROTEIN RESPONSE MODULATES THE EXPRESSION OF IRON-RELATED GENES**  
Susana Oliveira, PhD student, S.F. de Almeida, PhD, G. Picarote, undergraduate student, V.M. Costa, PhD student, F. Carvalho, PhD, J.E. Azevedo, PhD, J.P. Pinto, PhD and M. de Sousa, MD, PhD  
Instituto de Biologia Molecular e Celular, Universidade do Porto  
(Presented By: Susana Oliveira, PhD student)
- Poster# 113 BMP6 IS A KEY ENDOGENOUS REGULATOR OF HEPCIDIN EXPRESSION AND IRON METABOLISM**  
Billy Andriopoulos, Jr.<sup>2</sup>, Elena Corradini<sup>2,5</sup>, Yin Xia<sup>2</sup>, Sarah A. Faasse<sup>2</sup>, Shanzhuo Chen<sup>2</sup>, Lovorka Grgurevic<sup>3</sup>, Mitchell D. Knutson<sup>4</sup>, Antonello Pietrangelo<sup>5</sup>, Slobodan Vukicevic<sup>3</sup>, Herbert Y. Lin<sup>2</sup> and Jodie L. Babitt, MD<sup>1</sup>  
<sup>1</sup>Massachusetts General Hospital, Harvard Medical School; <sup>2</sup>Program in Membrane Biology, Division of Nephrology, Center for Systems Biology, Massachusetts General Hospital, Harvard Medical School, Boston, MA; <sup>3</sup>Laboratory of Mineralized Tissues, School of Medicine, University of Zagreb, Zagreb, Croatia; <sup>4</sup>Food Science and Human Nutrition Department, University of Florida, Gainesville, Florida; <sup>5</sup>Center for Hemochromatosis, University Hospital of Modena and Reggio Emilia, Modena Italy  
(Presented By: Jodie L. Babitt, MD)
- Poster# 114 FUNCTION OF THE IRP/IRE REGULATORY NETWORK IN HEPATOCYTES**  
Bruno Galy, PhD, Dunja Ferring-Appel, Lydie Viatte, Sylvia Kaden, Hermann-Josef Groene and Matthias Hentze  
European Molecular Biology Laboratory  
(Presented By: Bruno Galy, PhD)
- Poster# 115 FUNCTIONAL RNAI SCREEN IDENTIFIES CCL2 (MCP-1) AS A NOVEL REGULATOR OF TRANSFERRIN UPTAKE**  
Martina Muckenthaler<sup>1</sup>, Mingang Zhu, PhD<sup>2,3</sup>, Fabian Bartz<sup>3,4</sup>, Till Meinhof<sup>4</sup>, Holger Erfle<sup>5</sup>, Matthias Hentze, MD<sup>3,6</sup>, Rainer Pepperkok, PhD<sup>3,5</sup> and Heiko Runz, MD<sup>3,4</sup>  
<sup>1</sup>Department of Pediatric Hematology, Oncology and Immunology University of Heidelberg; <sup>2</sup>Department of Pediatrics, University of Heidelberg; <sup>3</sup>Molecular Medicine Partnership Unit (MMPU), University of Heidelberg/EMBL Heidelberg; <sup>4</sup>Institute of Human Genetics, University of Heidelberg; <sup>5</sup>Cell Biology/Biophysics Unit, European Molecular Biological Laboratories (EMBL); <sup>6</sup>Gene Expression Unit, European Molecular Biological Laboratories (EMBL)  
(Presented By: Martina Muckenthaler)
- Poster# 116 HEPCIDIN TRIGGERS REDUCTION IN DMT1 PROTEIN IN INTESTINAL CELLS**  
Carole Lagnel, Dr<sup>1</sup>, Andre Bado, Dr<sup>1</sup>, Philippe Letteron, Dr<sup>1</sup>, Corinne Nazaret<sup>1</sup>, Dimitri Tchernitchko, Dr<sup>1</sup>, Soumeia Bekri, Dr<sup>2</sup> and Carole Beaumont, Dr<sup>1</sup>  
<sup>1</sup>INSERM U773; <sup>2</sup>University of Rouen, Rouen  
(Presented By: Carole Lagnel, Dr)
- Poster# 117 INTESTINAL IRON ABSORPTION IN NEONATAL RATS DOES NOT CORRELATE WITH CHANGES IN THE EXPRESSION OF THE IRON REGULATORY HORMONE HEPCIDIN**  
Deepak Darshan, MBBS, PhD, David M. Frazer, PhD, Sarah J. Wilkins, BSc (Hons) and Greg J. Anderson, PhD  
Queensland Institute of Medical Research, PO Royal Brisbane & Women's Hospital, Brisbane, QLD 4029, Australia  
(Presented By: Deepak Darshan, MBBS, PhD)
- Poster# 118 PHLEBOTOMY-INDUCED IRON MOBILISATION FROM TISSUES OF HJV<sup>-/-</sup> MICE**  
Jan Krijt, PhD, Ludek Sefc, Martin Vokurka, Tereza Hlobenova and Emanuel Necas  
Charles University in Prague, First Faculty of Medicine, Institute of Pathophysiology and Center of Experimental Hematology  
(Presented By: Jan Krijt, PhD)
- Poster# 119 THE ROLES OF IRON AND FERRITIN IN ISCHEMIC PRECONDITIONING OF THE NON-DIABETIC AND DIABETIC HEART**  
Mottie Chevion, BSc, MSc, PhD, Vladimir Vinokur, MSc, Baruch Bulvik, MSc, Abraham Konijn, PhD and Eduard Berenshtein, MD, PhD  
Hebrew University of Jerusalem  
(Presented By: Mottie Chevion, BSc, MSc, PhD)

- Poster# 120 IMMUNOASSAY FOR HUMAN HEPcidIN IN BLOOD AND DEVELOPMENT OF A PROTOTYPE ELISA KIT**  
Mark Westerman, BS, MS, PhD<sup>1</sup>, Gordana Olbina, BS, MS, PhD<sup>1</sup>, Siong Wie, BS, PhD<sup>2</sup>, Vaughn Ostland, BS, MS, PhD<sup>1</sup>, Domenico Girelli, MD, PhD<sup>3</sup>, Kimberley O'Brien, BS, PhD<sup>4</sup>, Elizabeta Nemeth, BS, MS, PhD<sup>1</sup> and Tomas Ganz, BS, PhD, MD<sup>1</sup>  
<sup>1</sup>Intrinsic LifeSciences; <sup>2</sup>Immunodiagnostic Reagents Inc; <sup>3</sup>University of Verona; <sup>4</sup>Cornell University  
(Presented By: Mark Westerman, BS, MS, PhD)
- Poster# 121 ALTERATIONS IN IRON STATUS ARE ASSOCIATED WITH CHANGES IN THE CHOLESTEROL BIOSYNTHESIS PATHWAY**  
Ross M. Graham, BSc (Hons) PhD<sup>1</sup>, Anita C.G. Chua, BSc (Hons) PhD<sup>1</sup>, Kim Carter, BSc (Hons) PhD<sup>2</sup>, Roheeth D. Delima, BSc (Hons)<sup>1</sup>, Daniel Johnstone, BSc (Hons)<sup>3</sup>, Carly E. Herbison, BSc (Hons)<sup>1</sup>, Martin J. Firth, BSc (Hons) PhD<sup>2</sup>, Rebecca O'Leary, BSc (Hons) PhD<sup>2</sup>, Elizabeth A. Milward, BSc (Hons) PhD<sup>3</sup>, John K. Olynyk, MBBS, MD<sup>1</sup> and Debbie Trinder, BSc (Hons) PhD<sup>1</sup>  
<sup>1</sup>University of Western Australia and Western Australian Institute for Medical Research; <sup>2</sup>University of Western Australia and Telethon Institute for Child Health Research, Western Australia; <sup>3</sup>University of Newcastle, New South Wales, Australia  
(Presented By: Ross M. Graham, BSc (Hons) PhD)
- Poster# 122 DIFFERENCES IN GENE EXPRESSION OF DUODENAL IRON TRANSPORTERS IN HEMOCHROMATOSIS SUBJECTS WITH AND WITHOUT IRON OVERLOAD**  
James Nelson, PhD<sup>1</sup>, Stuart Raaka, Virginia Mugford, Ellen Kilcourse and Kris Kowdley, MD<sup>2</sup>  
<sup>1</sup>Benaroya Research Institute; <sup>2</sup>Benaroya Research Institute and Virginia Mason Medical Center  
(Presented By: James Nelson)
- Poster# 123 IDENTIFICATION OF AN IRON-REGULATED E3 UBIQUITIN LIGASE AND ITS ROLE IN IRON REGULATORY PROTEIN 2 STABILITY**  
Ameen Salahudeen, BS, Joel Thompson, BS and Richard Bruick, PhD  
UTSW Medical Center  
(Presented By: Richard Bruick, PhD)
- Poster# 124 59FE-DISTRIBUTION IN CONDITIONAL FERRITIN H KNOCKOUT MICE**  
Klaus Schuemann, Dr<sup>1</sup>, Anna Even<sup>1</sup>, Stefan Wagner<sup>1</sup>, Heike Weinheimer, MD<sup>1</sup>, Depak Darshan, PhD<sup>2</sup>, Liviu Vanoaica<sup>2</sup> and Lukas Kuehn, PhD<sup>2</sup>  
<sup>1</sup>Technical University Munich; <sup>2</sup>ISREC  
(Presented By: Klaus Schuemann, Dr)
- Poster# 125 GENOME-WIDE SIRNA SCREEN TO IDENTIFY REGULATORS OF THE HEPcidIN/FERROPORTIN REGULATORY SYSTEM**  
Sandro Altamura, PhD<sup>1</sup>, Wolfgang Gilles, PhD<sup>2</sup>, Heiko Runz, PhD<sup>2</sup>, Rainer Pepperkok, PhD<sup>3</sup>, Matthias Hentze, Prof<sup>4</sup> and Martina Muckenthaler, Prof<sup>2</sup>  
<sup>1</sup>MMPU – Molecular Medicine Partnership Unit; <sup>2</sup>University of Heidelberg / MMPU; <sup>3</sup>EMBL – European Molecular Biology Laboratory; <sup>4</sup>EMBL / MMPU  
(Presented By: Sandro Altamura, PhD)
- Poster# 126 DAILY REGULATION OF SERUM AND URINARY HEPcidIN IS NOT INFLUENCED BY SUBMAXIMAL CYCLING-BASED EXERCISE IN HUMANS WITH NORMAL IRON METABOLISM**  
Marie-Béregère Troadec, PhD<sup>1,10</sup>, Fabrice Lainé, MD<sup>2</sup>, Vincent Daniel, MD<sup>3</sup>, Pierre Rochcongar, MD, Professor<sup>3</sup>, Martine Ropert, MD<sup>4</sup>, Florian Cabillic, MD<sup>5</sup>, Michèle Perrin<sup>2</sup>, Jeff Morcet<sup>2</sup>, Olivier Loréal, MD, PhD<sup>6</sup>, Gordana Olbina, PhD<sup>7</sup>, Mark Westerman, MD, PhD<sup>7</sup>, Elizabeta Nemeth, MD, PhD<sup>8</sup>, Tomas Ganz, MD, PhD, Professor<sup>8</sup> and Pierre Brissot, MD, Professor<sup>1,9</sup>  
<sup>1</sup>Inserm U-522, Inserm CIC 203, Laboratory of Physiology and Sportsmedicine, Liver Disease Unit, University Hospital Pontchaillou; <sup>2</sup>Center For Clinical Investigation, Inserm 0203, University Hospital Pontchaillou, Rennes, France; <sup>3</sup>Laboratory of Physiology and Sportsmedicine, University Hospital Pontchaillou, Rennes, France; <sup>4</sup>Laboratory of Biochemistry, University Hospital Pontchaillou, Rennes, France; <sup>5</sup>URU biothérapies innovantes, and Laboratoire de cytogénétique et biologie cellulaire, University Hospital Pontchaillou, Rennes, France; <sup>6</sup>Inserm U-522, IFR 140, University Hospital Pontchaillou, Rennes, France; <sup>7</sup>Intrinsic LifeSciences, LLC, La Jolla, California, USA; <sup>8</sup>David Geffen School of Medicine, University of California, Los Angeles, USA; <sup>9</sup>Liver Disease Unit, Inserm U-522, IFR 140, University Hospital Pontchaillou, Rennes, France; <sup>10</sup>Intrinsic Life Sciences, La Jolla, California, David Geffen School of Medicine, UCLA, California, USA  
(Presented By: Marie-Béregère Troadec, PhD)
- Poster# 127 ARABIDOPSIS NRAMP1 IS REQUIRED FOR HIGH-AFFINITY MANGANESE UPTAKE BY THE ROOT**  
Rémy Cailliatte, PhD, Jean-François Briat, PhD, Stéphane Mari, PhD and Catherine Curie  
BPMP-IBIP  
(Presented By: Catherine Curie)
- Poster# 128 THE STRUCTURE OF THE HEPcidIN-FERROPORTIN BINDING INTERFACE**  
Elizabeta Nemeth, PhD, Gloria Preza, MS, Alan Waring, PhD, Richard Clark, PhD, David Craik, PhD and Tomas Ganz, PhD, MD  
University of California, Los Angeles  
(Presented By: Elizabeta Nemeth, PhD)
- Poster# 129 TWO TFR2 MICE MODELS REPRODUCE HEMOCHROMATOSIS TYPE 3 AND CAN GIVE INSIGHT INTO MOLECULAR MECHANISMS OF TFR2 PROTEIN**  
Antonella Roetto, PhD<sup>1</sup>, Rosa Maria Pellegrino, Dr<sup>2</sup>, Ferdinando Di Cunto, Prof<sup>3</sup>, Emilio Hirsch, Prof<sup>3</sup>, Ornella Azzolino, Dr<sup>3</sup>, Sonia Carturan, Dr<sup>2</sup>, Fiorella Altruda, Prof<sup>3</sup>, Clara Camaschella, Prof<sup>4</sup> and Giuseppe Saglio, Prof<sup>2</sup>  
<sup>1</sup>University of Torino; <sup>2</sup>University of Torino, Department of Clinical and Biological Science, Az Osp San Luigi Gonzaga, Orbassano Torino Italy; <sup>3</sup>University of Torino Department of Genetics, Biology and Biochemistry Molecular Biotechnology Center, Torino, Italy; <sup>4</sup>Vita-Salute San Raffaele University and San Raffaele Scientific Institute, Milan, Italy  
(Presented By: Antonella Roetto, PhD)

- Poster# 130**    **DEGRADATION PATHWAYS OF HUMAN IRON REGULATORY PROTEIN 2**  
Camille Dycke<sup>2</sup>, Peggy Charbonnier, Catherine Bougault, Kostas Pantopoulos<sup>3</sup> and Jean-Marc Moulis, PhD<sup>1</sup>  
<sup>1</sup>CEA-Grenoble/IRTSV-LCBM; <sup>2</sup>CEA-CNRS-Université Grenoble, France; <sup>3</sup>Lady Davis Institute for Medical Research, Department of Medicine, McGill University, Montreal, Quebec, Canada  
(Presented By: Jean-Marc Moulis, PhD)
- Poster# 131**    **WITHDRAWN**  
**METABOLIC REGULATION OF IRON HOMEOSTASIS IN HEREDITARY LEIOMYOMATOSIS AND RENAL CELL CARCINOMA**  
Wing-Hang Tong, Suh Young Jeong, PhD, Gennadiy Kovtunovych, PhD, Youfeng Yang, PhD, Marston Linehan, MD and Tracey A. Rouault, MD  
National Institute of Child Health and Human Development, USA
- Poster# 132**    **HEPATIC COPPER CONTENT IS REDUCED IN WILSON DISEASE KNOCKOUT MICE FED AN IRON-ENRICHED DIET**  
Uta Merle, PD, Dr, Sabine Tuma, Valer Muntean, Martin Volkmann, Sven Gehrke and Wolfgang Stremmel, Prof Dr  
University of Heidelberg  
(Presented By: Wolfgang Stremmel, Prof Dr)
- Poster# 133**    **FPN1 INTERACTS WITH HEPHAESTIN AND HEME OXYGENASE 1 BUT NOT ABCG2 IN INTESTINAL IRON ABSORPTION**  
Kwo-yih Yeh, PhD, Mary Yeh, MS, Laura Mims, BS and Jonathan Glass, MD  
LSUHSC, Shreveport, LA  
(Presented By: Kwo-yih Yeh, PhD)
- Poster# 134**    **HEREDITARY HAEMOCHROMATOSIS PROTEIN (HFE)-DEPENDENT REGULATION OF IRON TRANSFER ACROSS PLACENTA**  
Rumeza Hanif, PhD student<sup>1</sup>, Sara Balesaria, PhD<sup>1</sup>, Harry J. McArdle, PhD<sup>2</sup> and Kaila Srari, PhD<sup>1</sup>  
<sup>1</sup>University College London; <sup>2</sup>University of Aberdeen  
(Presented By: Rumeza Hanif, PhD student)
- Poster# 135**    **GENERATION OF A MOUSE STRAIN WITH INDUCIBLE IRP1 OVEREXPRESSION: A NEW MODEL FOR UNDERSTANDING IRON METABOLISM DISORDERS**  
D. Casarrubea<sup>1</sup>, L. Viatte, R. Eisenstein<sup>2</sup>, B. Galy<sup>1</sup> and M.W. Hentze<sup>1</sup>  
<sup>1</sup>European Molecular Biology Laboratory; <sup>2</sup>University of Wisconsin  
(Presented By: D. Casarrubea)
- Poster# 136**    **EXPRESSION OF GENES INVOLVED IN IRON IMPORT/EXPORT IN HUMAN INTESTINAL AND LIVER CELLS: EFFECT OF IRON AVAILABILITY AND MODULATION BY ETHANOL**  
Jan Kovar, DSc, Kamila Balusikova, Jitka Neubauerova and Marketa Dostalikova-Cimbuova  
Third Faculty of Medicine, Charles University, Prague  
(Presented By: Jan Kovar, DSc)
- Poster# 137**    **INTERRELATIONS BETWEEN IRON METABOLISM AND ETHANOL EFFECT ON CELL PROLIFERATION IN THE HUMAN HEPATOMA HEPARG CELL LINE**  
Thi Hong Tuoi Do<sup>2</sup>, François Gaboriau<sup>2</sup>, Romain Moirand<sup>2,3</sup>, Caroline Le Lan<sup>2,3</sup>, Isabelle Cannie<sup>2</sup>, Lucie Gouffier<sup>2</sup>, Olivier Loréal<sup>2</sup>, Pierre Brissot<sup>2,3</sup> and Gérard Lescoat<sup>1</sup>  
<sup>1</sup>INSERM U522; <sup>2</sup>Inserm U522 – EA « MDC », Université de Rennes 1, IFR 140, Rennes; <sup>3</sup>Service des maladies du Foie, CHU Pontchaillou, Rennes  
(Presented By: Gérard Lescoat)
- Poster# 138**    **HIGHLY SENSITIVE HISTOCHEMICAL STAINING OF IRON COMBINED TO GENETIC ANALYSIS OF ARABIDOPSIS EMBRYOS REVEAL THAT IRON SPECIFICALLY ACCUMULATES IN THE ENDODERMAL CELL LAYER**  
Hannetz Roschztardt, PhD, Genevieve Conejero, PhD, Stéphane Mari, PhD and Catherine Curie  
BPMP-IBIP  
(Presented By: Catherine Curie)
- Poster# 139**    **CHARACTERIZATION OF FELINE SERUM FERRITIN-BINDING POTEINS: THE PRESENCE OF A NOVEL FERRITIN-BINDING PROTEIN AS AN INHIBITORY FACTOR IN FERRITIN IMMUNOASSAY**  
Koichi Orino, PhD, DVM and Kiyotaka Watanabe, PhD, DVM  
Kitasato University  
(Presented By: Koichi Orino, PhD, DVM)
- Poster# 140**    **REGULATORY EFFECTS OF FERRITIN ON H-KININOGEN: IMPLICATIONS FOR ANGIOGENESIS**  
Lan Coffman, PhD, Yufeng Song, BA, Frank Torti, MD and Suzy Torti, PhD  
Wake Forest University School of Medicine  
(Presented By: Suzy Torti, PhD)
- Poster# 141**    **OVEREXPRESSION OF IRP2 INCREASES THE GROWTH OF TUMOR XENOGRAPTS IN NUDE MICE**  
Carmen Maffettone<sup>1</sup> and Kostas Pantopoulos, PhD<sup>2</sup>  
<sup>1</sup>Lady Davis Institute for Medical Research; <sup>2</sup>Lady Davis Institute for Medical Research and McGill University  
(Presented By: Carmen Maffettone)

- Poster# 142**    **C282Y AND H63D MUTATIONS IN HFE GENE IMPACT ON EPITHELIAL OVARIAN CANCER RISK AND SURVIVAL**  
Christine M. Maugard, MD, PhD, Sanae Medelci, Beaulieu Martin, Philippe Gannon, Diane M. Provencher, Anne-Marie Mes-Masson and Manuela M. Santos  
Montreal Cancer Institute / CRCHUM / University of Montréal  
(Presented By: Christine M. Maugard, MD, PhD)
- Poster# 143**    **GENOME-WIDE MICROARRAY ANALYSIS OF MELANOMA REVEALS UNEXPECTED ANOMALIES IN IRON-RELATED GENE EXPRESSION**  
Daniel Johnstone, Martin Ravetti, PhD, Carlos Riveros, PhD, Pablo Moscato, PhD, Peter Hersey, MD, Rodney Scott, PhD and Liz Milward, PhD  
University of Newcastle  
(Presented By: Daniel Johnstone)
- Poster# 144**    **A ROLE FOR LUMINAL IRON IN COLORECTAL CARCINOGENESIS**  
Chris Tselepis, Sorina Radulescu, Matthew Brookes, Tariq Iqbal and Owen Sansom  
University of Birmingham  
(Presented By: Chris Tselepis)
- Poster# 145**    **MOLECULAR-GENETIC ANALYSIS OF CERULOPLASMIN IN OESOPHAGEAL CANCER**  
Natalie Strickland, MSc Genetics<sup>1</sup>, Tandi Matsha and Monique Zaahl, PhD Genetics<sup>2</sup>  
<sup>1</sup>University of Stellenbosch; <sup>2</sup>University of Genetics  
(Presented By: Natalie Strickland, MSc Genetics)
- Poster# 146**    **MUTATION ANALYSIS OF THE SLC40A1 PROMOTER IN BLACK SOUTH AFRICAN OESOPHAGEAL CANCER PATIENTS**  
Jessica Vervalle, BSc (Hons), Ann Louw, PhD, Louise Warnich, PhD and Monique Zaahl, PhD  
Stellenbosch University  
(Presented By: Jessica Vervalle, BSc (Hons))
- Poster# 147**    **MOLECULAR CHARACTERIZATION OF THE 5' UNTRANSLATED REGION (UTR) OF THE CYTOCHROME B REDUCTASE 1 (CYBRD1) GENE OF OESOPHAGEAL CANCER PATIENTS**  
Veronique Human, MSc<sup>1</sup>, Thandi Matsha, PhD<sup>2</sup>, Louise Warnich, PhD<sup>1</sup> and Monique Zaahl, PhD<sup>1</sup>  
<sup>1</sup>Stellenbosch University; <sup>2</sup>Cape Peninsula University of Technology  
(Presented By: Veronique Human, MSc)
- Poster# 148**    **HEPHAESTIN IS INVOLVED IN CONTROLLING IRON EFFLUX FROM OLIGODENDROCYTES IN THE CENTRAL NERVOUS SYSTEM**  
Katrin Schulz<sup>1</sup>, Chris D. Vulpe, PhD<sup>2</sup> and Samuel David, PhD<sup>3</sup>  
<sup>1</sup>Center for Research in Neuroscience; <sup>2</sup>Department of Nutritional Sciences and Toxicology, University of California; <sup>3</sup>Center for Research in Neuroscience, The Research Institute of the McGill University Health Center  
(Presented By: Katrin Schulz)
- Poster# 149**    **EXTRACELLULAR H-FERRITIN IS AN ALTERNATIVE IRON IMPORT MECHANISM IN OLIGODENDROCYTES, AND ITS RECEPTOR IS TIM-2**  
James R. Connor, PhD, Bozho Todorich, BS, Xuesheng Zhang, PhD and Becky Slagle-Webb, BS  
Penn State College of Medicine  
(Presented By: James R. Connor, PhD)
- Poster# 150**    **THE COMPARTMENTALIZED DISTRIBUTION OF FERROPORTIN IN THE MOUSE CENTRAL NERVOUS SYSTEM IS INDICATIVE OF A DELICATE FUNCTION FOR NEURONAL IRON METABOLISM**  
M. Boserup<sup>2</sup>, J. Lichota<sup>2</sup>, D. Haile<sup>3</sup> and Torben Moos<sup>1</sup>  
<sup>1</sup>Aalborg University; <sup>2</sup>Department of Health Science and Technology, Aalborg University, Aalborg, Denmark; <sup>3</sup>Department of Medicine, University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA  
(Presented By: Torben Moos)
- Poster# 151**    **IRON UPTAKE IN THE RETINA OF THE RAT: IMPLICATIONS FOR AGE-INDEPENDENT AND CONTINUOUS IRON UPTAKE, PLUS ANTEROGRADE AXONAL IRON TRANSPORT BY RETINAL GANGLION CELLS**  
Torben Moos<sup>1</sup>, N. Bernth<sup>2</sup>, Y. Courtois<sup>3</sup> and E.H. Morgan<sup>4</sup>  
<sup>1</sup>Department of Health Science and Technology, Aalborg University, Aalborg, Denmark; <sup>2</sup>Danish Technological Institute, Taastrup, Denmark; <sup>3</sup>INSERM 598, University Pierre and Marie Curie, Paris, France; <sup>4</sup>Department of Physiology, University of Western Australia, Crawley, Australia  
(Presented By: Torben Moos)
- Poster# 152**    **RELATIONSHIP BETWEEN BRAIN R2 AND LIVER AND SERUM IRON CONCENTRATIONS IN ELDERLY MEN**  
Michael House, PhD<sup>1</sup>, Timothy St. Pierre<sup>1</sup>, Elizabeth Milward<sup>2</sup>, David Bruce<sup>1</sup> and John Olynyk<sup>1</sup>  
<sup>1</sup>The University of Western Australia; <sup>2</sup>The University of Newcastle  
(Presented By: Michael House, PhD)
- Poster# 153**    **THE HEPcidIN MRNA AND FPN1 PROTEIN EXPRESSION IN THE CP-/- MOUSE BRAIN**  
Shu-Min Wang, Pei Guo, Zhen-Ling Yang, Xiang-Lin Duan and Yan-Zhong Chang, PhD  
Hebei Normal University  
(Presented By: Yan-Zhong Chang, PhD)

- Poster# 154 THE INCREASING IRON ACCUMULATION IN THE AGING BRAIN IS REFLECTED BY AN INCREASE IN NEURONAL FERRITIN RATHER THAN OF FERROPORTIN**  
M. Boserup<sup>1</sup>, L. Lichota<sup>1</sup>, D. Haile<sup>2</sup> and Torben Moos<sup>1</sup>  
<sup>1</sup>Department of Health Science and Technology, Aalborg University, Aalborg, Denmark.; <sup>2</sup>Department of Medicine, University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA  
(Presented By: Torben Moos)
- Poster# 155 INHIBITION OF PROLIFERATION OF OLN 93 CELLS BY IRON CHELATORS: USE AS TEST SYSTEM TO STUDY THE BIOAVAILABILITY OF IRON IN IRON OXIDE NANOPARTICLES**  
Michaela Hohnholt, Mark Geppert and Ralf Dringen, Dr  
University Bremen  
(Presented By: Michaela Hohnholt)
- Poster# 156 THE IONOTROPIC GLUTAMATE RECEPTOR AGONIST N-METHYL D-ASPARTATE (NMDA) AND SPATIAL MEMORY TRAINING ENHANCE THE EXPRESSION OF THE IRON TRANSPORTER DMT1 IN HIPPOCAMPAL NEURONS**  
Paola Haeger, PhD<sup>2</sup>, Pablo Munoz, PhD<sup>3</sup>, Alexis Humeres, MSc<sup>2</sup>, M. Angelica Carrasco, PhD<sup>4</sup>, Marco T. Nunez, PhD<sup>5</sup> and Cecilia Hidalgo, PhD<sup>1</sup>  
<sup>1</sup>F. Medicine, U. Chile; <sup>2</sup>CEMC, F. Medicine, U. de Chile, Santiago, Chile; <sup>3</sup>CIBR, U. de Valparaíso, Valparaíso, Chile; <sup>4</sup>ICBM & CEMC, F. Medicine, U. de Chile, Santiago, Chile; <sup>5</sup>MI CDB, F. Sciences, U. de Chile, Santiago, Chile  
(Presented By: Cecilia Hidalgo, PhD)
- Poster# 157 BRAIN IRON MANAGEMENT PROTEIN GENE EXPRESSION VARIES ACROSS THE DIURNAL CYCLE AND WITH DIETARY IRON DEPRIVATION**  
Erica Unger, PhD, John Beard, PhD, Lei Hao, Narasimha Hegde, PhD, Byron Jones, PhD and James Connor, PhD  
Pennsylvania State University  
(Presented By: Erica Unger, PhD)
- Poster# 158 GENOME-WIDE MICROARRAY ANALYSIS OF BRAIN FROM A HEMOCHROMATOSIS HFE KNOCKOUT MOUSE MODEL SHOWS FEW CHANGES IN IRON-RELATED GENE EXPRESSION**  
Daniel Johnstone, Ross Graham, PhD, Deborah Trinder, PhD, Rodney Scott, PhD, John Olynyk, MD and Liz Milward, PhD  
University of Newcastle  
(Presented By: Daniel Johnstone)
- Poster# 159 QUANTIFICATION OF IRON IN HUMAN BRAIN IN VIVO USING APPARENT TRANSVERSE RELAXATION RATE OBTAINED AT HIGH FIELD MRI**  
Fumiyuki Mitsumori, PhD, Hidehiro Watanabe, PhD and Nobuhiro Takaya  
National Institute for Environmental Studies  
(Presented By: Fumiyuki Mitsumori, PhD)
- Poster# 160 CHARACTERIZATION OF THE IRON MANAGEMENT PROTEIN PROFILES IN THE BRAINS OF MICE CARRYING THE H67D MUTATION IN HFE GENE**  
James Connor, PhD, Wint Nandar, BS and Elizabeth Neely, BS  
Penn State University, M.S. Hershey Medical Center  
(Presented By: James Connor, PhD)
- Poster# 161 FORWARD GENETIC ANALYSIS OF BRAIN IRON MANAGEMENT DURING IRON DEFICIENCY**  
Byron C. Jones, PhD, Leslie C. Jellen, BS, Erica L. Unger, PhD and John L. Beard, PhD  
The Pennsylvania State University  
(Presented By: Byron C. Jones, PhD)
- Poster# 162 CELLULAR IMPACT OF H63D HFE MUTANT PROTEIN ON ALS**  
Sang Lee, PhD<sup>1</sup>, Yiting Liu, PhD<sup>1</sup>, Zachary Simmons, MD<sup>2</sup> and James Connor, PhD<sup>1</sup>  
<sup>1</sup>Penn State College of Medicine; <sup>2</sup>Penn State MS Hershey Medical Center  
(Presented By: Sang Lee, PhD)
- Poster# 163 CERULOPLASMIN DIFFERENTIAL EXPRESSION IN THE CEREBROSPINAL FLUID OF PARKINSON'S DISEASE REFLECTS OXIDATION AND FUNCTIONAL IMPAIRMENT FAVOURING INTRACELLULAR IRON OVERLOAD**  
Stefano Olivieri<sup>1</sup>, Sandro Iannaccone, Doctor<sup>2</sup>, Antonio Conti, Doctor<sup>2</sup>, Carlo Cannistraci, Doctor<sup>2</sup>, Diego Franciotta, Doctor<sup>3</sup>, Laura Piccio, Doctor<sup>4</sup>, Stefano Cappa, Professor<sup>5</sup> and Massimo Alessio, Doctor<sup>2</sup>  
<sup>1</sup>San Raffaele Scientific Institute; <sup>2</sup>San Raffaele Scientific Institute, Milan; <sup>3</sup>Istituto Neurologico Mondino, Pavia; <sup>4</sup>Washington University School of Medicine, St. Louis; <sup>5</sup>San Raffaele University, Milan  
(Presented By: Stefano Olivieri)
- Poster# 164 ASSOCIATION STUDIES IN ALZHEIMER'S DISEASE EXCLUDE CAT53 AS A NEW SUSCEPTIBILITY GENE BUT SUPPORT A PUTATIVE PROTECTIVE ROLE OF THE C282Y HFE MUTATION**  
Ana Paula Correia, MD<sup>1,3</sup>, Jorge Pinto, PhD<sup>2</sup>, Vera Dias, Technician<sup>2</sup>, Cláudia Mascarenhas, Technician<sup>2</sup>, Susana Almeida, Technician<sup>2</sup> and Graça Porto, MD, PhD<sup>2,3,4</sup>  
<sup>1</sup>Hospital de Magalhães Lemos, Porto; <sup>2</sup>IBMC – Institute for Molecular and Cellular Biology, Porto; <sup>3</sup>Centro Hospitalar do Porto, Hospital de Santo António, Porto; <sup>4</sup>ICBAS – Abel Salazar Institute for the Biomedical Sciences, Porto, Portugal  
(Presented By: Ana Paula Correia, MD)
- Poster# 165 HFE POLYMORPHISM, H63D, IMPACTS TAU PHOSPHORYLATION**  
James Connor, PhD<sup>1</sup>, Eric Hall, II, BS<sup>1</sup>, Sang Lee, PhD<sup>1</sup>, Noot Mairuae, MS<sup>2</sup> and Zach Simmons, MD<sup>1</sup>  
<sup>1</sup>Penn State University; <sup>2</sup>Chulalongkorn University  
(Presented By: James Connor, PhD)

- Poster# 166 REACTIVE OXYGEN SPECIES REGULATE CERULOPLASMIN BY A NOVEL MRNA DECAY MECHANISM INVOLVING ITS 3'-UNTRANSLATED REGION: IMPLICATIONS IN IRON DEPOSITION IN NEURODEGENERATIVE DISEASES**  
Nisha Tapryal, MSc and Chinmay Mukhopadhyay, PhD  
Jawaharlal Nehru University  
(Presented By: Nisha Tapryal, MSc)
- Poster# 167 LONG TERM DEFERIPRONE INDUCES IRON DEFICIENCY IN FRIEDREICH ATAXIA PATIENTS**  
Filomena Longo, MD<sup>2</sup>, Simona Roggero, MD<sup>2</sup>, Chiara Compagni, MD<sup>2</sup> and Antonio Piga, Prof<sup>1</sup>  
<sup>1</sup>Department of Biological and Clinical Sciences; <sup>2</sup>University of Turin  
(Presented By: Antonio Piga, Prof)
- Poster# 168 ABNORMAL METAL DISTRIBUTION IN THE WHITE MATTER OF THE BRAIN IN FRIEDREICH ATAXIA**  
Bogdan Popescu, MD<sup>1</sup>, Deborah Renaud, MD<sup>2</sup>, Joseph Parisi, MD<sup>2</sup> and Helen Nichol, PhD<sup>1</sup>  
<sup>1</sup>University of Saskatchewan; <sup>2</sup>Mayo Clinic Foundation  
(Presented By: Bogdan Popescu, MD)
- Poster# 169 THE EXPRESSION AND ROLE OF LIPOCALIN 2 AND ITS RECEPTOR AFTER SPINAL CORD INJURY**  
Khizr Rathore, Adriana Redensek, MSc, Ruben Lopez-Vales, PhD, Manuela Santos, PhD, Shizuo Akira, PhD, Alan Aderem, PhD and Samuel David, PhD  
Centre for Research in Neuroscience, McGill University  
(Presented By: Khizr Rathore)
- Poster# 170 HO-1-MEDIATED MACROAUTOPHAGY: A MECHANISM FOR UNREGULATED BRAIN IRON DEPOSITION**  
Hillel Zukor<sup>1</sup>, Wei Song, MD, PhD<sup>1</sup>, Adrienne Liberman, BSc<sup>1</sup>, Jeannie Mui, BSc<sup>1</sup>, Hojatollah Vali, PhD<sup>1</sup>, Carine Fillebeen, PhD<sup>1</sup>, Kostas Pantopoulos, PhD<sup>1</sup>, Ting-Di Wu, PhD<sup>2</sup>, Jean-Luc Guerquin-Kern, PhD<sup>2</sup> and Hyman Morris Schipper, MD, PhD<sup>1</sup>  
<sup>1</sup>McGill University; <sup>2</sup>Institut Curie  
(Presented By: Hillel Zukor)
- Poster# 171 GENE EXPRESSION CHANGES RELATED TO ALZHEIMER'S DISEASE AND OTHER NEURODEGENERATIVE DISORDERS IN A HEMOCHROMATOSIS HFE KNOCKOUT MOUSE MODEL**  
Daniel Johnstone, Ross Graham, PhD, Deborah Trinder, PhD, Rodney Scott, PhD, John Olynyk, MD and Liz Milward, PhD  
University of Newcastle  
(Presented By: Daniel Johnstone)
- Poster# 172 THE ROLE OF MITOCHONDRIAL FERRITIN ON HYDROGEN PEROXIDE INDUCED SH-SY5Y CELL DAMAGE**  
Nan Zhang, Zhen-Hua Shi, Yan-Zhong Chang, PhD and Xiang-Lin Duan  
Hebei Normal University  
(Presented By: Xiang-Lin Duan)
- Poster# 173 IRON, FRATAXIN AND FRIEDREICH'S ATAXIA NEURODEGENERATION: DEFECTIVE FOLDING AND FUNCTION IN COMPOUND HETEROZYGOTES**  
Cláudio M. Gomes, PhD and Ana R. Correia  
<sup>1</sup>Instituto Tecnologia Química e Biológica, Universidade Nova de Lisboa, 2780-756 Oeiras, Portugal  
(Presented By: Cláudio M. Gomes, PhD)
- Poster# 174 ANALYSIS OF IRON HOMEOSTASIS IN SKIN FIBROBLASTS FROM PANTOTHENATE KINASE ASSOCIATED NEURODEGENERATION PATIENTS**  
Alessandro Campanella<sup>1</sup>, Elisabetta Rovelli<sup>2</sup>, Barbara Garavaglia<sup>3</sup> and Sonia Levi<sup>4</sup>  
<sup>1</sup>University Vita-Salute San Raffaele; <sup>2</sup>San Raffaele Scientific Institute, DIBIT, Milan, Italy; <sup>3</sup>Fondazione IRCCS Istituto Neurologico "C. Besta", Milan, Italy; <sup>4</sup>University Vita-Salute San Raffaele and San Raffaele Scientific Institute, DIBIT, Milan, Italy  
(Presented By: Alessandro Campanella)
- Poster# 175 SYNCHROTRON X-RAY FLUORESCENCE REVEALS ABNORMAL DISTRIBUTION OF METALS IN BRAIN AND SPINAL CORD IN SPINOCEREBELLAR ATAXIA: A CASE REPORT**  
Bogdan Popescu, MD, Christopher Robinson, MD, L. Dean Chapman, PhD and Helen Nichol, PhD  
University of Saskatchewan  
(Presented By: Bogdan Popescu, MD)
- Poster# 176 SERUM FERRITIN IS NOT RELATED TO COGNITIVE STATUS – RESULTS FROM A PERSPECTIVE COMMUNITY STUDY OF OLDER AUSTRALIANS**  
Liz Milward, David Bruce, MD, Michelle Cole, NA, Matthew Knuiman, PhD, Mark Divitini, PhD, Helen Bartholomew, GradDipComp, Graham Maier, GradDipComp and John Olynyk, MD  
University of Newcastle  
(Presented By: Liz Milward)
- Poster# 177 THE ROLE OF EXTERNAL LOOPS OF CERULOPLASMIN IN STABILIZING FERROPORTIN ON CELL MEMBRANE**  
Maria Carmela Bonaccorsi di Patti, Dr, Nunziata Maio, Fabio Politicelli and Giovanni Musci  
University La Sapienza  
(Presented By: Maria Carmela Bonaccorsi di Patti, Dr)
- Poster# 178 CYSTEINE OXIDATION REGULATES THE RNA-BINDING ACTIVITY OF IRON REGULATORY PROTEIN 2 DURING OXIDATIVE STRESS**  
Kimberly Zumbrennen, PhD, Michelle Wallander, PhD, Joshua Romney, PhD and Elizabeth Leibold, PhD  
University of Utah  
(Presented By: Kimberly Zumbrennen, PhD)

- Poster# 179 PROTECTION OF CARDIAC CELLS AGAINST OXIDATIVE INJURY BY NOVEL IRON CHELATORS – KETONE ANALOGS OF SALICYLALDEHYDE ISONICOTINOYL HYDRAZONE (SIH)**  
Tomas Simunek, PhD, Petra Bendova, Katerina Hruskova, Pavlina Haskova, Petra Kovarikova and Katerina Vavrova  
Charles University in Prague, Faculty of Pharmacy  
(Presented By: Tomas Simunek, PhD)
- Poster# 180 EFFECTS OF OXIDATIVE STRESS ON IRON REGULATORY GENES IN TWO DIFFERENT MICE MODELS FOR NAFLD**  
Rolf Hultcrantz, MD, C. Söderberg, P. Stål, K. Eckes and M. Sjöström  
Department of Gastroenterology, Karolinska University Hospital, Stockholm, Sweden  
(Presented By: Rolf Hultcrantz, MD)
- Poster# 181 THE CRITICAL ROLE OF INTRACELLULAR LABILE IRON AND FERRITIN IN THE RESISTANCE OF CELLS TO HYDROGEN PEROXIDE**  
Charareh Pourzand, PhD<sup>1</sup>, Abdullah Al-Qenaie, PhD<sup>2</sup>, Anthie Yiakouvaki, PhD<sup>2</sup>, Paolo Santambrogio, PhD<sup>3</sup>, Sonia Levi, PhD<sup>4</sup>, Rex Tyrrell, PhD<sup>2</sup> and Nick Hall, PhD<sup>5</sup>  
<sup>1</sup>Department of Pharmacy and Pharmacology/University of Bath; <sup>2</sup>Department of Pharmacy and Pharmacology, Bath University, Bath, UK; <sup>3</sup>San Raffaele Scientific Institute, Milano, Italy; <sup>4</sup>Vita-Salute San Raffaele University and San Raffaele Scientific Institute, Milano, Italy; <sup>5</sup>Bath Institute for Rheumatic Diseases, Bath, UK  
(Presented By: Charareh Pourzand, PhD)
- Poster# 182 PROTECTION OF CARDIOMYOCYTES AGAINST CATECHOLAMINE INJURY BY IRON CHELATOR SALICYLALDEHYDE ISONICOTINOYL HYDRAZONE (SIH)**  
Pavlina Haskova, MSc<sup>1</sup>, Petra Kovarikova<sup>1</sup>, Anna Vavrova<sup>1</sup>, Prem Ponka<sup>2</sup> and Tomas Simunek<sup>1</sup>  
<sup>1</sup>Charles University in Prague, Faculty of Pharmacy in Hradec Kralove, Czech Republic; <sup>2</sup>Lady Davis Institute for Medical Research and Department of Physiology, McGill University, Montreal, QC, Canada  
(Presented By: Pavlina Haskova, MSc)
- Poster# 183 PARAQUAT DOWN-REGULATES IRON REGULATORY PROTEIN 1 ACTIVITIES AND EXPRESSION IN MURINE RAW 264.7 CELLS AND BONE MARROW-DERIVED MACROPHAGES**  
Rafal Starzynski, PhD<sup>1</sup>, Agnieszka Grzelak, PhD<sup>2</sup>, Agnieszka Stys, MSc<sup>1</sup>, Grzegorz Bartosz, PhD<sup>2</sup> and Pawel Lipinski, PhD<sup>1</sup>  
<sup>1</sup>Institute of Genetics and Animal Breeding; <sup>2</sup>University of Lodz  
(Presented By: Rafal Starzynski, PhD)
- Poster# 184 IRON METABOLISM UNDER DIQUAT-INDUCED OXIDATIVE STRESS IN FISCHER-344 RATS**  
Masashi Higuchi, graduate student, Junnichi Oshida, Koichi Orino and Kiyotaka Watanabe  
Kitasato University  
(Presented By: Masashi Higuchi, graduate student)
- Poster# 185 HEMIN IS TOXIC TO ASTROCYTES: ARE IRON OR OXIDATIVE STRESS INVOLVED?**  
Stephen Robinson, PhD<sup>1</sup>, Theresa Dang<sup>2</sup>, Ralf Dringen<sup>2</sup> and Glenda Bishop<sup>2</sup>  
<sup>1</sup>Monash University; <sup>2</sup>SPPPM, Monash University  
(Presented By: Stephen Robinson, PhD)
- Poster# 186 IRON CHELATION BY SYNTHETIC CHELATORS AND FLAVONOIDS DEPENDS ON PH**  
Katerina Macakova, Premysl Mladenka, PhD, Libuse Zatloukalova, MSc, Katerina Vavrova, PhD, Lubomir Opletal, Asst Prof, Radomir Hrdina, Asst Prof and Ludek Jahodar, Prof  
Charles University in Prague, Faculty of Pharmacy in Hradec Králové, Czech Republic  
(Presented By: Katerina Macakova)
- Poster# 187 POLYANHYDROGLUCURONIC ACID DERIVATIVE OF LACTOFERRIN DOES NOT IMPROVE ITS PROTECTIVE EFFECTS ON CATECHOLAMINE CARDIOTOXICITY**  
Premysl Mladenka, PhD<sup>1</sup>, Vladimir Semecky, Asst Prof<sup>1</sup>, Libuse Zatloukalova, MSc<sup>1</sup>, Jiri Briestensky<sup>2</sup> and Radomir Hrdina, Asst Prof<sup>1</sup>  
<sup>1</sup>Faculty of Pharmacy, Charles University; <sup>2</sup>Alltracel Pharma CZ  
(Presented By: Premysl Mladenka, PhD)