

14:00 – 15:15

## **Poster Session I Presentations**

*Location: Arquivo*

- Poster# 1**     **A NEW FLVCR ISOFORM ABLE TO SUPPORT ERYTHROPOIESIS**  
Deborah Chiabrando, PhD Student, Samuele Marro, Erika Messina, Sonia Mercurio, Emilia Turco, Lorenzo Silengo, Fiorella Altruda and Emanuela Tolosano, PhD  
Molecular Biotechnology Center, Torino  
(Presented By: Emanuela Tolosano, PhD)
- Poster# 2**     **ABSENCE OF THE HEMOCHROMATOSIS GENE HFE CONFERS PROTECTION UNDER CONDITIONS OF STRESS ERYTHROPOIESIS**  
Pedro Ramos<sup>1</sup>, Ella Guy<sup>1</sup>, Robert W Grady, PhD<sup>1</sup>, Maria de Sousa, MD, PhD<sup>2</sup> and Stefano Rivella, PhD<sup>1</sup>  
<sup>1</sup>Weill Cornell Medical College, New York; <sup>2</sup>IBMC, Porto  
(Presented By: Pedro Ramos)
- Poster# 3**     **A CLOSER LOOK AT CELLULAR IRON METABOLISM IN IRP2 DEFICIENT ERYTHROBLASTS**  
Matthias Schranzhofer, PhD<sup>1</sup>, Manfred Schiffrer, MSc<sup>2</sup>, Bruno Galy, PhD<sup>3</sup>, Matthias Hentze, MD<sup>3</sup>, Muellner Ernst, PhD<sup>2</sup> and Prem Ponka, MD, PhD<sup>4</sup>  
<sup>1</sup>McGill University; <sup>2</sup>Max F. Perutz Laboratories, Department of Medical Biochemistry, Medical University of Vienna, Austria; <sup>3</sup>European Molecular Biology Laboratories, Heidelberg, Germany; <sup>4</sup>Lady Davis Institute for Medical Research, McGill University, Montreal, Canada  
(Presented By: Matthias Schranzhofer, PhD)
- Poster# 4**     **DOES HEME OXYGENASE 1 PLAY A ROLE IN ERYTHROID DIFFERENTIATION?**  
Daniel Garcia dos Santos, Msc<sup>1,3</sup>, Matthias Schranzhofer, Msc, PhD<sup>1,4</sup>, Jesse Eisenberg<sup>1</sup>, Jose Artur Bogo Chies, Msc, PhD<sup>2</sup> and Prem Ponka, MD, PhD<sup>1,5</sup>  
<sup>1</sup>Lady Davis Institute for Medical Research, Jewish General Hospital, Montreal, QC, Canada; <sup>2</sup>Universidade Federal do Rio Grande do Sul (UFRGS), Programa de Pos Graduacao em Genetica e Biologia Molecular (PPGBM), Departamento de Genetica, Porto Alegre, RS, Brazil; <sup>3</sup>Universidade Federal do Rio Grande do Sul (UFRGS), Programa de Pos Graduacao em Genetica e Biologia Molecular (PPGBM), Departamento de Genetica, Brazil; <sup>4</sup>Universidade Federal do Rio Grande do Sul (UFRGS), Programa de Pos Graduacao em Genetica e Biologia Molecular, Departamento de Genetica, Porto Alegre, RS, Brazil; <sup>5</sup>Department of Physiology, McGill University, Montreal, QC, Canada  
(Presented By: Daniel Garcia dos Santos, Msc)
- Poster# 5**     **LOW HEPcidIN AND ELEVATED GDF15 LEVELS IN PATIENTS WITH CONGENITAL DYSERYTHROPOIETIC ANEMIA (CDA)**  
Guillem Casanovas<sup>1</sup>, Judit Kiss<sup>2</sup>, Sandro Altamura<sup>2</sup>, Hermann Heimpel<sup>3</sup> and Martina U. Muckenthaler<sup>2</sup>  
<sup>1</sup>European Molecular Biology Laboratory; <sup>2</sup>Department of Pediatric Hematology, Oncology and Immunology University of Heidelberg, Germany; <sup>3</sup>Department for Internal Medicine III (Hematology/Oncology), University Hospital of Ulm, Germany  
(Presented By: Guillem Casanovas)
- Poster# 6**     **WITHDRAWN**  
**TRANSFERRIN RECEPTOR ACTIVATION BY POLYMERIC IGA1 MODULATES CYTOKINE THRESHOLD OF EARLY ERYTHROBLASTS**  
S  verine Coulon<sup>1</sup>, C  line Callens<sup>1</sup>, Pamela Huey Mei Wang<sup>2</sup>, Julie Vandekerckhove<sup>1</sup>, Damien Grapton<sup>2</sup>, Houda Tamouza<sup>2</sup>, Yael Zermati<sup>1</sup>, Jean-Antoine Ribeil<sup>1</sup>, Bertrand Arnulf<sup>3</sup>, Marie-Alexandra Alyanakian<sup>4</sup>, Marc Benhamou<sup>2</sup>, Renato C. Monteiro<sup>2</sup>, Olivier Hermine<sup>1</sup> and Ivan Cruz Moura<sup>2</sup>  
<sup>1</sup>CNRS UMR 8147; <sup>2</sup>INSERM U699; <sup>3</sup>EA3963; <sup>4</sup>INSERM U580
- Poster# 7**     **STUDYING IRON METABOLISM IN ERYTHROID CELLS UNDER DIFFERENT OXYGEN CONDITONS**  
Manfred Schiffrer, MSc<sup>1</sup>, Matthias Schranzhofer, PhD<sup>2</sup> and Ernst Muellner, PhD<sup>1</sup>  
<sup>1</sup>Medical University of Vienna/MFPL; <sup>2</sup>McGill University/Lady Davis Institute  
(Presented By: Manfred Schiffrer, MSc)
- Poster# 8**     **FRATAxin EXPRESSION LEVELS DURING INCREASED HEME SYNTHESIS IN K562 CELLS**  
Laura Neumann, Hannes Steinkellner, MSc, Barbara Scheiber-Mojdehkar, PhD, Hans Goldenberg, PhD and Brigitte Sturm, PhD  
Medical University of Vienna  
(Presented By: Laura Neumann)
- Poster# 9**     **CHARACTERIZATION OF IRON METABOLISM AND ANEMIA IN A MOUSE MODEL OF CONGENITAL ERYTHROPOIETIC PORPHYRIA**  
Said Lyoumi, PhD<sup>1</sup>, Constance Delaby, PhD<sup>2</sup>, Sarah Millot, MD<sup>1</sup>, Zoubida Karim, PhD<sup>1</sup>, David Haile, PhD<sup>3</sup>, Hubert de Verneuil, MD, PhD<sup>4</sup>, Herve Puy, MD, PhD<sup>5</sup> and Carole Beaumont<sup>1</sup>  
<sup>1</sup>INSERM U773; <sup>2</sup>University Paris Diderot; <sup>3</sup>University of Texas; <sup>4</sup>University of Bordeaux; <sup>5</sup>Versailles-Saint Quentin University  
(Presented By: Carole Beaumont)
- Poster# 10**    **REGULATION OF IRON HOMEOSTASIS IN ANEMIA OF CHRONIC DISEASES AND IRON DEFICIEANCY ANEMIA: DIAGNOSTIC AND THERAPEUTIC IMPLICATIONS**  
Igor Theurl<sup>2</sup>, Elmar Aigner<sup>3</sup>, Milan Theurl<sup>4</sup>, Manfred Nairz<sup>2</sup>, Markus Seifert<sup>2</sup>, Andrea Schroll<sup>2</sup>, Thomas Sonnweber<sup>2</sup>, Lukas Eberwein<sup>2</sup>, Derrick R. Witcher<sup>5</sup>, Anthony T. Murphy<sup>5</sup>, Victor J. Wroblewski<sup>5</sup>, Eva Wurz<sup>2</sup>, Christian Datz<sup>3</sup> and G  nter Weiss<sup>1</sup>  
<sup>1</sup>Internal Medicine I, Clinical Immunolgy and Infectious Diseases; <sup>2</sup>Department of Internal Medicine I, Clinical Immunology and Infectious Diseases, Medical University of Innsbruck, Austria; <sup>3</sup>General Hospital Oberndorf, Department of Internal Medicine, Oberndorf, Austria; <sup>4</sup>Departments of Ophthalmology and Internal Medicine I, Clinical Immunology and Infectious Diseases, Medical University of Innsbruck, Austria; <sup>5</sup>Biotechnology Discovery Research, Lilly Research Laboratories, Lilly Corporate Center, Indianapolis, IN, USA  
(Presented By: G  nter Weiss)

- Poster# 11** **COPPER-DEFICIENT ANEMIC RATS, BUT NOT MICE, UP-REGULATE FERROPORTIN EXPRESSION AND DOWN-REGULATE HEPcidIN**  
Supak Jenkitkasemwong<sup>1</sup>, Joseph Prohaska, PhD<sup>2</sup> and Mitchell Knutson<sup>1</sup>  
<sup>1</sup>University of Florida; <sup>2</sup>University of Minnesota  
(Presented By: Mitchell Knutson)
- Poster# 12** **HIGH PHOSPHATE CONCENTRATIONS DISRUPT IRON LOADING INTO FERRITIN FORMING IRON (III)-PHOSPHATE COLLOID PARTICLES: CORRELATIONS TO NON-TRANSFERRIN BOUND IRON IN CHRONIC KIDNEY DISEASE**  
Richard Watt, PhD, Robert Hilton, BS, Nathan Andros, BSc and Zachary Kenealey, Undergraduate  
Brigham Young University  
(Presented By: Richard Watt, PhD)
- Poster# 13** **FERRIC PYROPHOSPHATE: BIOCHEMICAL CHARACTERISATION AND METABOLIC FATE IN HEPG2 CELLS**  
Brigitte Sturm, PhD, Nina Ternes, PhD, Hans Goldenberg, PhD and Barbara Scheiber-Mojdehkar, PhD  
Medical University of Vienna  
(Presented By: Barbara Scheiber-Mojdehkar, PhD)
- Poster# 14** **ERYTHROPOIETIC AND IRON FEATURES IN THE DIFFERENT CLINICAL FORMS OF HEREDITARY SPHEROCYTOSIS – A PRELIMINARY STUDY**  
Susana Rocha<sup>1</sup>, Petronila Rocha-Pereira, PhD<sup>2</sup>, Fátima Ferreira, MD<sup>3</sup>, Esmeralda Cleto, MD<sup>4</sup>, Marika Antunes, MD<sup>4</sup>, José Barbot, MD<sup>5</sup>, Alexandre Quintanilha, PhD<sup>6</sup>, Luís Belo, PhD<sup>1</sup> and Alice Santos-Silva, PhD<sup>1</sup>  
<sup>1</sup>Faculdade de Farmácia/Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto; <sup>2</sup>Centro de Investigação em Ciências da Saúde (CICS), Universidade da Beira Interior/Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto; <sup>3</sup>Hospital de S. João, Porto; <sup>4</sup>Hospital de Santo António, Centro Hospitalar do Porto; <sup>5</sup>Hospital Maria Pia, Centro Hospitalar do Porto; <sup>6</sup>Instituto de Ciências Biomédicas Abel Salazar (ICBAS)/Instituto de Biologia Molecular e Celular (IBMC), Universidade do Porto  
(Presented By: Susana Rocha)
- Poster# 15** **PATHOGENESIS OF ANEMIA IN PREGNANCY AND ANEMIA OF INFLAMMATION ARE SIMILAR**  
Valeriy Demikhov, MD, Elena Morshchakova, MD and Anatole Pavlov, MD  
Federal Research Center for Pediatric Hematology  
(Presented By: Valeriy Demikhov, MD)
- Poster# 16** **EFFECTS OF RECOMBINANT HUMAN ERYTHROPOIETIN THERAPY ON MODERATE STAGES OF CARDIO-RENAL ANAEMIA SYNDROME – AN EXPERIMENTAL MODEL**  
Patrícia Garrido, MSci<sup>2</sup>, Flávio Reis, PhD<sup>1</sup>, Elísio Costa, MSci<sup>3</sup>, Belmiro Parada, MD<sup>1</sup>, Edite Teixeira de Lemos, PhD<sup>1</sup>, Nuno Piloto, Biochem D<sup>1</sup>, José Sereno, Biochem D<sup>1</sup>, Carlos Alberto Tavares, MD<sup>4</sup>, Carlos Ferrer Antunes, MD<sup>4</sup>, Arnaldo Figueiredo, PhD<sup>5</sup>, Lina Carvalho, PhD<sup>6</sup>, Petronila Rocha Pereira, PhD<sup>7</sup>, Luis Belo, PhD<sup>3</sup>, Alice Santos Silva, PhD<sup>3</sup> and Frederico Teixeira, PhD<sup>1</sup>  
<sup>1</sup>Institute of Pharmacology & Experimental Therapeutics, Medicine Faculty, Coimbra University; <sup>2</sup>Institute of Pharmacology & Experimental Therapeutics, Medicine Faculty, Coimbra University, Portugal; <sup>3</sup>Biochemistry Service, Pharmacy Faculty & IBMC, University of Porto; <sup>4</sup>Laboratory of Haematology, Coimbra University Hospital; <sup>5</sup>Service of Urology and Renal Transplantation, Coimbra University Hospital; <sup>6</sup>Institute of Anatomic Pathology, Medicine Faculty, Coimbra University; <sup>7</sup>Research Centre for Health Sciences, Beira Interior University, Covilhã  
(Presented By: Flávio Reis, PhD)
- Poster# 17** **ATYPICAL IRON DEFICIENCY ANAEMIA – ASSOCIATION OF TWO NEW MUTATIONS IN FERROPORTIN AND TMPRSS6 GENES**  
Gonçalo Caetano, MD<sup>2</sup>, Luis Relvas, BScSc<sup>2</sup>, Celeste Bento, MsCSc<sup>2</sup>, Maria Pedro Silveira, MD<sup>2</sup> and Leticia Ribeiro, MD<sup>1</sup>  
<sup>1</sup>Centro Hospitalar Coimbra; <sup>2</sup>Serv. Hematologia, CHC  
(Presented By: Leticia Ribeiro, MD)
- Poster# 18** **BIOMINERALIZATION IN MAGNETOTACTIC BACTERIA PROCEEDS WITHOUT MINERAL PRECURSOR AND MAGNETOSOMES MOVE DURING CHAIN ASSEMBLY**  
Berthold F. Matzanke, PhD, DiplChem<sup>1</sup>, D. Faivre, PhD<sup>2</sup>, L.H. Boettger, PhD<sup>3</sup>, N. Menguy, PhD<sup>4</sup>, G. Ona-Nguema, PhD<sup>4</sup>, M. Pósfai, PhD<sup>5</sup>, H.P. Gunnlaugson, Prof, PhD<sup>6</sup> and D. Schuele, Prof, PhD<sup>7</sup>  
<sup>1</sup>University of Luebeck, Isotopes Laboratory; <sup>2</sup>Max Planck Institute of Colloids and Interfaces, Science Park Golm, 14424 Potsdam, Germany; <sup>3</sup>Institute of Physics, University of Lübeck, Ratzeburger Allee 160, 23538 Lübeck, Germany; <sup>4</sup>Universités Paris 6 and 7 and Institut de Physique du Globe de Paris, 140 rue de Lourmel, 75015 Paris, France; <sup>5</sup>Department of Earth and Environmental Sciences, University of Pannonia, POB 158, 8200 Veszprém, Hungary; <sup>6</sup>Institute of Physics and Astronomy, Århus University, Ny Munkegade, 8000 Århus C, Denmark; <sup>7</sup>Department of Biology, LMU München, Biozentrum, Großhaderner Str. 2, 82152 Planegg-Martinsried, Germany  
(Presented By: Berthold F. Matzanke, PhD, DiplChem)
- Poster# 19** **IRON-SULFUR PROTEINS AND THE NITRIC OXIDE CYTOTOXICITY IN BACTERIA**  
Huangen Ding, PhD, Binbin Ren, BSc<sup>1</sup>, Xuewu Duan, PhD, Aaron Landry, BSc and Juanjuan Yang, MSc  
Louisiana State University  
(Presented By: Huangen Ding, PhD)
- Poster# 20** **SERCA PUMP EXPRESSION AND IRON UPTAKE IN A DROSOPHILA CELL LINE**  
Wenlin Wu, PhD and Maria Lind Karlberg  
Comparative Physiology, Uppsala University, Sweden  
(Presented By: Maria Lind Karlberg)
- Poster# 21** **THE IMPACT OF DIETARY COPPER AND ZINC ON DROSOPHILA FERRITIN DISTRIBUTION AND IRON METABOLISM**  
Fanis Missirlis, PhD  
Queen Mary University of London  
(Presented By: Fanis Missirlis, PhD)

- Poster# 22**      **OVEREXPRESSION OF THE YEAST FRATAXIN HOMOLOG (YFH1): CONTRASTING EFFECTS ON IRON-SULFUR CLUSTER ASSEMBLY, HEME SYNTHESIS AND RESISTANCE TO OXIDATIVE STRESS**  
Alexandra Seguin, Aurélien Bayot, Andrew Dancis, Adelina Rogowska-Wrzesinska, Françoise Auchère, Jean-Michel Camadro, Anne-Laure Bulteau and Emmanuel Lesuisse  
Institut Jacques Monod, Université Paris Diderot and UPMC  
(Presented By: Alexandra Seguin)
- Poster# 23**      **KLAFT, THE KLUYVEROMYCES LACTIS ORTHOLOG OF AFT1 AND AFT2, MEDIATES IRON-RESPONSIVE GENE EXPRESSION THROUGH AN AFT-TYPE ELEMENT**  
Natalia Conde e Silva, PhD, Isabelle R. Gonçalves, PhD, Marc Lemaire, PhD, Emmanuel Lesuisse, PhD, Jean Michel Camadro, PhD and Pierre Louis Blaiseau, PhD  
Institut Jacques Monod  
(Presented By: Natalia Conde e Silva, PhD)
- Poster# 24**      **HAPTOGLOBIN AND HAPTOGLOBIN-RELATED PROTEIN ARE HEMOGLOBIN-BINDING PROTEINS WITH DIVERSE FUNCTIONS**  
Marianne Jensby Nielsen, PhD, Benoit Vanhollebeke, Christian Jacobsen, Etienne Pays and Søren Kragh Møestrup  
University of Aarhus  
(Presented By: Marianne Jensby Nielsen, PhD)
- Poster# 25**      **IRON AND VIRUSES – INTERACTIONS OF HIV-1 WITH CELLULAR IRON METABOLISM**  
Lucy Eddowes, Andrew Armitage, Alain Townsend and Hal Drakesmith  
University of Oxford  
(Presented By: Lucy Eddowes)
- Poster# 26**      **MILD INCREASES IN SERUM HEPICIDIN AND INTERLEUKIN-6 CONCENTRATIONS IMPAIR IRON INCORPORATION IN HEMOGLOBIN DURING EXPERIMENTAL HUMAN MALARIA INFECTION**  
Quirijn de Mast, MD, Edmee Dongen-van Lases, PhD, Dorine Swinkels, PhD, An-Emmie Nieman, MD, Meta Roostenberg, MD, Pierre Druilhe, PhD, Theo Arens, MSc, Adrian Luty, PhD, Cornelis Hermsen, PhD, Robert Sauerwein, PhD and Andre van der Ven  
Radboud University Nijmegen Medical Center, Nijmegen, The Netherlands  
(Presented By: Andre van der Ven)
- Poster# 27**      **INTRACELLULAR PARASITE LEISHMANIA DONOVANI MANIPULATES IRON HOMEOSTASIS OF HOST MACROPHAGE BY DEPLETING INTRACELLULAR LABILE IRON POOL**  
Chinmay Mukhopadhyay, PhD and Nupurkanti Das, MBBSc  
Jawaharlal Nehru University  
(Presented By: Chinmay Mukhopadhyay, PhD)
- Poster# 28**      **IDENTIFICATION OF A NEW HEXADENTATE IRON CHELATOR CAPABLE OF RESTRICTING THE INTRAMACROPHAGIC GROWTH OF MYCOBACTERIUM AVIUM**  
Sofia Sousa Fernandes, PhD<sup>2</sup>, Ana Nunes, PhD<sup>3</sup>, Ana Rita Gomes, BSc<sup>4</sup>, Baltazar de Castro, PhD<sup>3</sup>, Robert C. Hider, PhD<sup>5</sup>, Maria Rangel, PhD<sup>6</sup>, Rui Appelberg, PhD, MD<sup>7</sup> and Maria Salomé Gomes, PhD<sup>1</sup>  
<sup>1</sup>IBMC and ICBAS- Universidade do Porto; <sup>2</sup>IBMC-Universidade do Porto; <sup>3</sup>REQUIMTE-Faculdade de Ciências, U.P.; <sup>4</sup>IBMC-U.P.; <sup>5</sup>Division of Pharmaceutical Sciences, King's College London; <sup>6</sup>REQUIMTE-Faculdade de Ciências and ICBAS-U.P.; <sup>7</sup>IBMC and ICBAS-Universidade do Porto  
(Presented By: Maria Salomé Gomes, PhD)
- Poster# 29**      **ZIP TRANSPORTERS IN LEISHMANIA INFANTUM**  
Sandra Carvalho, Tânia Cruz, Licenciatura, Rosa Silva, Licenciatura, Vítor Costa, PhD and Ana M. Tomás, PhD  
Institute for Molecular and Cell Biology, IBMC, Porto  
(Presented By: Sandra Carvalho)
- Poster# 30**      **EVALUATION OF IRON STATUS IN PATIENTS WITH GASTRITIS AND HELICOBACTER PYLORI INFECTION**  
Helena Grotto, MD, PhD and Eliana Alvarenga, postgraduate student  
State University of Campinas, Brasil  
(Presented By: Helena Grotto, MD, PhD)
- Poster# 31**      **IRON-HEME METABOLISM IN LEISHMANIA INFANTUM INTRACELLULAR STAGE**  
Tânia Cruz, Sandra Carvalho and Ana Tomás  
Instituto de Biologia Molecular e Celular, IBMC, Universidade do Porto  
(Presented By: Tânia Cruz)
- Poster# 32**      **SYNTHESIS AND CHARACTERIZATION OF A NOVEL TRIPODAL CATECHOLATE HEXADENTATE CHELATOR**  
Carla Queiroz, MScC<sup>1</sup>, Ana M.G. Silva, PhD<sup>2</sup>, Mariana Andrade, BScC<sup>2</sup>, Paula Gameiro, PhD<sup>2</sup>, Baltazar Castro, Agregação<sup>2</sup> and Maria Rangel, PhD<sup>3</sup>  
<sup>1</sup>REQUIMTE, ICBAS, Universidade do Porto; <sup>2</sup>REQUIMTE, Departamento de Química, Faculdade de Ciências, Universidade do Porto, 4169-007 Porto, Portugal; <sup>3</sup>REQUIMTE, Instituto de Ciências Biomédicas de Abel Salazar, 4099-003 Porto, Portugal  
(Presented By: Carla Queiroz, MScC)
- Poster# 33**      **DIAGNOSTIC ACCURACY OF SERUM HEPICIDIN FOR IRON DEFICIENCY IN CRITICALLY ILL PATIENTS WITH ANEMIA**  
Sigismund Lasocki, Isabelle Boutron, PhD, Fathi Driss, MD, PhD, Mark Westerman, PhD, Herve Puy, MD, PhD, Sarah Millot, MD, Philippe Montravers, MD, PhD and Carole Beaumont, PhD  
INSERM U773  
(Presented By: Sigismund Lasocki)

- Poster# 34** **MHC CLASS I ANTIGEN PRESENTATION: EFFECT OF HFE, A PROTEIN INVOLVED IN IRON METABOLISM**  
Alexandre Reuben, Manuela M. Santos, PhD and Réjean Lapointe, PhD  
University of Montreal/CRCHUM/Montreal Cancer Institute (ICM)  
(Presented By: Alexandre Reuben)
- Poster# 35** **HEPATIC MCP-1 GENE EXPRESSION IS SUPPRESSED IN IRON-LOADED MALE C282Y HOMOZYGOTES AND CORRELATES WITH HEPcidIN EXPRESSION**  
John D. Ryan, MBBCh<sup>1</sup>, Eleanor Ryan, PhD<sup>2</sup>, Matthew Lawless, PhD<sup>2</sup>, Jens Stolte<sup>3</sup>, Martina U. Muckenthaler, PhD<sup>3</sup> and John Crowe, PhD<sup>2</sup>  
<sup>1</sup>Centre for Liver Disease; <sup>2</sup>Centre for Liver Disease, Mater Misericordiae University Hospital, Dublin, Ireland; <sup>3</sup>Department of Pediatric Haematology, Oncology and Immunology, University of Heidelberg, Germany  
(Presented By: John D. Ryan, MBBCh)
- Poster# 36** **INFLAMMATION-INDUCED HEPcidIN IS ASSOCIATED WITH THE DEVELOPMENT OF ANEMIA IN SEPTIC PATIENTS**  
Lucas van Eijk, MD<sup>1</sup>, Joyce Kroot, MSc<sup>2</sup>, Mirjam Tromp, MA, RN<sup>3</sup>, Peter Pickkers, MD, PhD<sup>4</sup> and Dorine Swinkels, MD, PhD<sup>2</sup>  
<sup>1</sup>Radboud University Nijmegen Medical Centre; <sup>2</sup>Department of Clinical Chemistry, Radboud University Nijmegen Medical Centre; <sup>3</sup>Nijmegen Institute for Infection, Inflammation, and Immunity (N4i), Department of Internal Medicine, Radboud University Nijmegen Medical Centre; <sup>4</sup>Department of Intensive Care Medicine, Radboud University Nijmegen Medical Centre  
(Presented By: Lucas van Eijk)
- Poster# 37** **INFLAMMATION UPREGULATES NON-TRANSFERRIN BOUND IRON UPTAKE BY HEPATOCYTES**  
Debbie Trinder, BSc, PhD, Carly Herbison, BSc (Hons), Roheeth Delima, BSc (Hons), Anita Chua, BSc (Hons) PhD, Ross Graham, BSc (Hons), PhD and John Olynyk, MBBS, MD  
University of Western Australia  
(Presented By: Debbie Trinder, BSc, PhD)
- Poster# 38** **HIGH NUMBERS OF THE MOST MATURE CD8+ EFFECTOR MEMORY T CELLS ARE ASSOCIATED WITH THE NEW GGG HAPLOTYPE, A MARKER OF LESS SEVERE EXPRESSION OF HEREDITARY HEMOCHROMATOSIS**  
M. Fátima Macedo, PhD<sup>1</sup>, Monica Costa<sup>2</sup>, Graça Porto, MD, PhD<sup>3,4</sup> and Eugénia Cruz, MD, PhD<sup>2,4</sup>  
<sup>1</sup>IBMC; <sup>2</sup>IRIS, IBMC, Porto University; <sup>3</sup>IRIS, IBMC, ICBAS, Porto University; <sup>4</sup>Hematology S. António Hospital, Porto  
(Presented By: M. Fátima Macedo, PhD)
- Poster# 39** **INCREASED FREQUENCY OF CD4+CD28+ T-LYMPHOCYTES IN MICE WITH HFE-DEFICIENCY**  
Maja Vujic Spasic, PhD<sup>1</sup>, Alexis Perez Gonzalez, PhD<sup>2</sup>, Andy Riddell, PhD<sup>2</sup>, Matthias Hentze, Prof MD<sup>2</sup> and Martina Muckenthaler, Prof PhD<sup>1</sup>  
<sup>1</sup>University Hospital of Heidelberg; <sup>2</sup>EMBL, Heidelberg, Germany  
(Presented By: Maja Vujic Spasic, PhD)
- Poster# 40** **ELEVATED ICAM-1 AND SUPPRESSION OF VCAM-1 SERUM PROTEIN IN HEREDITARY HEMOCHROMATOSIS PATIENTS**  
Matthew Lawless, PhD, MSc<sup>1</sup>, Suzanne Norris, MD, PhD<sup>2</sup> and John Crowe, MD, PhD<sup>3</sup>  
<sup>1</sup>Mater Misericordiae Hospital; <sup>2</sup>Trinity College Dublin; <sup>3</sup>Centre for Liver Disease, Mater Misericordiae Hospital, University Hospital, Dublin  
(Presented By: Matthew Lawless, PhD, MSc)
- Poster# 41** **THE MULTICOPPER OXIDASE CERULOPLASMIN AND THE IRON EXPORTER FERROPORTIN ARE BOTH PRESENT AT THE CELL SURFACE OF HUMAN PERIPHERAL BLOOD LYMPHOCYTES**  
Liliana Marques, Rui Malhó, François Canonne-Hergaux and Luciana Costa  
Instituto Nacional de Saúde Dr. Ricardo Jorge  
(Presented By: Liliana Marques)
- Poster# 42** **LEUKOCYTE APOPTOSIS AND INFLAMMATION IN IRON-OVERLOADED PATIENTS WITH SICKLE CELL DISEASE OR BETA-THALASSEMIA: A MECHANISM FOR INCREASED STROKE AND DISEASE SEVERITY IN SICKLE CELL DISEASE**  
Patrick Walter, PhD<sup>1</sup>, Killilea David, PhD<sup>2</sup>, Fung Ellen, PhD<sup>1</sup>, Anne Higa, BScs<sup>1</sup>, Jacqueline Madden, BScs, RN<sup>1</sup>, John Porter, MD<sup>2</sup>, Pat Evans, PhD<sup>2</sup>, Bruce Ames, PhD<sup>1</sup>, Elliott Vichinsky, MD<sup>1</sup> and Paul Harmatz, MD<sup>1</sup>  
<sup>1</sup>Children's Hospital & Research Center Oakland; <sup>2</sup>University College London  
(Presented By: Patrick Walter, PhD)
- Poster# 43** ***MOVED TO NOVEL TECHNOLOGIES SYMPOSIUM, WEDNESDAY, JUNE 10, 17:20***  
**VASCULAR INFLAMMATORY RESPONSE AND SPATIAL ARRANGEMENT OF CELL ADHESION MOLECULES ASSOCIATED WITH REDOX CYCLING OF IRON IN PULMONARY BLAST INJURY**  
Nikolai Gorbunov, PhD  
The Henry M. Jackson Foundation for the Advancement of Military Medicine Inc.  
(Presented By: Nikolai Gorbunov, PhD)
- Poster# 44** **ENDOSOMAL TRANSPORT OF TRANSFERRIN TO MITOCHONDRIA IS ESSENTIAL FOR EFFICIENT UTILIZATION OF IRON FOR HEME SYNTHESIS**  
Alex D. Sheftel, PhD, An-Sheng Zhang, MD, Tanya Kahawita, MSc, Orian S. Shirihai, MD, PhD and Prem Ponka, MD, PhD  
Institut für Zytobiologie, Philipps-Universität-Marburg  
(Presented By: Alex D. Sheftel, PhD)
- Poster# 45** **POTENTIAL INVOLVEMENT OF DMT1 AND ZIP8 IN IRON RELEASE FROM LYSOSOMES**  
Chevaun Morrison, BS<sup>1</sup>, Ningning Zhao<sup>2</sup>, Annie Nguyen<sup>1</sup>, Angelica Gonzalez<sup>1</sup>, Eric Sauble<sup>1</sup>, Maria C Linder<sup>1</sup> and Mitchell Knutson<sup>2</sup>  
<sup>1</sup>California State University, Fullerton; <sup>2</sup>University of Florida, Gainesville  
(Presented By: Chevaun Morrison, BS)

- Poster# 46** **EVIDENCE FOR AN ENDOPLASMIC RETICULUM IRON TRANSPORT SYSTEM**  
Marie-Berengere Troadec, PhD, Diane M. Ward, PhD and Jerry Kaplan, PhD  
University of Utah  
(Presented By: Marie-Berengere Troadec)
- Poster# 47** **DELIVERY OF IRON FROM TRANSFERRIN TO MITOCHONDRIA VIA PATHWAYS INVOLVING LABILE AND NON-CHELATABLE FORMS OF IRON**  
Maya Shvartsman, MSc<sup>1</sup>, Eugenia Prus, PhD<sup>2</sup>, Eitan Fibach, Prof<sup>2</sup> and Ioav Cabantchik, MD, PhD Prof<sup>3</sup>  
<sup>1</sup>Hebrew University of Jerusalem; <sup>2</sup>Hadassah Medical Center, Jerusalem, Israel; <sup>3</sup>Hebrew University of Jerusalem, Jerusalem, Israel  
(Presented By: Maya Shvartsman, MSc)
- Poster# 48** **HEME AND IRON TRANSPORT SYSTEMS IN NON-POLARIZED AND POLARIZED CELLS**  
Izumi Yanatori<sup>1</sup>, Mitsuaki Tabuchi, PhD, Reiko Akagi, PhD<sup>2</sup> and Fumio Kishi, MD, PhD  
<sup>1</sup>Kawasaki Medical School; <sup>2</sup>Yasuda Women's University  
(Presented By: Izumi Yanatori)
- Poster# 49** **IRON SUPPLY DETERMINES APICAL/BASOLATERAL MEMBRANE DISTRIBUTION OF INTESTINAL IRON TRANSPORTERS DMT1 AND FERROPORTIN 1**  
Marco T. Nunez, PhD<sup>1</sup>, Victoria Tapia, BSc<sup>1</sup>, Alejandro Rojas, PhD<sup>1</sup>, Pabla Aguirre, PhD<sup>1</sup>, Francisco Gomez, BSc<sup>1</sup>, Daniela Sandoval, Engineer in Biotechnology<sup>1</sup> and Francisco Nualart, PhD<sup>2</sup>  
<sup>1</sup>Universidad de Chile; <sup>2</sup>Universidad de Concepcion  
(Presented By: Marco T. Nunez, PhD)
- Poster# 50** **SUBCELLULAR DISTRIBUTIONS OF ZIP14 AND DMT1 IN HEPG2 CELLS: IMPLICATIONS FOR CELLULAR IRON IMPORT AND ENDOSOMAL IRON TRANSPORT**  
Ningning Zhao and Mitchell Knutson  
University of Florida  
(Presented By: Mitchell Knutson)
- Poster# 51** **FERRITIN DOES NOT DONATE ITS IRON FOR HEME SYNTHESIS IN CULTIVATED MACROPHAGES**  
Marc R. Mikhael, BSc<sup>1</sup>, Alex D. Sheftel, BSc, PhD<sup>2</sup> and Prem Ponka, MD, PhD<sup>3</sup>  
<sup>1</sup>McGill University; <sup>2</sup>Institut für Zytobiologie, Philipps-Universität-Marburg, Marburg, Germany; <sup>3</sup>Lady Davis Institute and Department of Physiology, McGill University, Montreal, QC, Canada  
(Presented By: Marc R. Mikhael, BSc)
- Poster# 52** **MOVED TO NOVEL TECHNOLOGIES SYMPOSIUM, WEDNESDAY, JUNE 10, 17:40**  
**PROBING THE INTERRELATIONSHIPS OF THE CELLULAR LABILE IRON POOLS (LIP) IN NORMAL AND PATHOLOGICAL CONDITIONS: AN OVERVIEW**  
William Brwuer, PhD<sup>2</sup>, Yan-Sung Sohn, MSc, Maya Shvartsman, MSc, Or Kakhlon, PhD and Ioav Cabantchik, MD, PhD<sup>1</sup>  
<sup>1</sup>Hebrew University of Jerusalem; <sup>2</sup>Institute of Life Sciences, Hebrew University of Jerusalem  
(Presented By: Ioav Cabantchik, MD, PhD)
- Poster# 53** **CHARACTERIZATION OF A POTENTIAL IRON SHUTTLE WITHIN THE CYTOPLASM OF MAMMALIAN CELLS**  
Natasha Hill, BS<sup>1</sup>, Ben Rojas<sup>1</sup>, Vireak Thon<sup>1</sup>, Robert Malanga<sup>1</sup>, Lena Ton-nu<sup>1</sup>, Lina Planutyte<sup>1</sup>, Maria C. Linder<sup>1</sup>, Andrew Z. Mason<sup>2</sup> and Ashraf Elamin<sup>2</sup>  
<sup>1</sup>California State University, Fullerton; <sup>2</sup>California State University, Long Beach  
(Presented By: Natasha Hill, BS)
- Poster# 54** **DIFFERENTIAL PROTEOMIC APPROACH TO INVESTIGATE IRON RESPONSE IN MURINE MACROPHAGES**  
Annalisa Castagna, PhD<sup>1</sup>, Ivana De Domenico<sup>2</sup>, Rita Polati<sup>3</sup>, Alessandra Bossi<sup>3</sup>, Natascia Camprostrini<sup>4</sup>, Federica Zaninotto<sup>4</sup>, Fabiana Busti<sup>4</sup>, Lello Zolla<sup>5</sup>, AnnaMaria Timperio<sup>5</sup>, Oliviero Olivieri<sup>4</sup>, Jerry Kaplan<sup>6</sup> and Domenico Girelli<sup>4</sup>  
<sup>1</sup>University of Verona, department of Clinical and Experimental Medicine; <sup>2</sup>University of Utah, School of Medicine, Department of Internal Medicine, Salt Lake City UT, US; <sup>3</sup>University of Verona, Dip. di Biotecnologie, Verona, Italy; <sup>4</sup>University of Verona, Dip. di Medicina Clinica e Sperimentale, Verona, Italy; <sup>5</sup>University of Tuscia, Department of Environmental Sciences, Italy; <sup>6</sup>University of Utah, School of Medicine, Department of Pathology, Salt Lake City UT, US  
(Presented By: Annalisa Castagna, PhD)
- Poster# 55** **MITOFERRIN 1 AND 2 ACT AS MITOCHONDRIAL IRON IMPORTERS IN HELA CELLS**  
Sara Luscieti, Patrizia Cavadini, PhD, Maura Poli, PhD, Federica Maccarinelli, PhD, Dario Finazzi, PhD and Paolo Arosio, PhD  
Dipartimento Materno Infantile e Ttecnologie Biomediche, Università di Brescia, Italy  
(Presented By: Sara Luscieti)
- Poster# 56** **THE ASSEMBLY OF RESPIRATORY COMPLEX I REQUIRES THE IRON-SULFUR CLUSTER PROTEIN HUIND1**  
Alex D. Sheftel, PhD, Oliver Stehling, PhD, Antonio J. Pierik, PhD, Daili J.A. Netz, PhD, Stefan Kerscher, PhD, Hans-Peter Elsässer, PhD, Ilka Wittig, PhD, Ulrich Brandt, PhD, Janneke Balk, PhD and Roland Lill, PhD  
Institut für Zytobiologie, Philipps-Universität-Marburg  
(Presented By: Alex D. Sheftel, PhD)
- Poster# 57** **DOWN-REGULATION OF COMPONENTS OF THE IRON-SULFUR CLUSTER ASSEMBLY MACHINERIES IN INFLAMMATORY MACROPHAGES**  
Cédric Picot, PhD, Frédéric Canal, PhD, Kahina Abbas, PhD student, Cendrine Seguin, research assistant, Valérie Quesniaux, PhD, Jean-Claude Drapier, PhD and Cecile Bouton  
ICSN-CNRS avenue de la Terrasse, 91190 Gif-sur-Yvette, France  
(Presented By: Cecile Bouton)

- Poster# 58** **MITOCHONDRIAL FERRITIN ATTENUATES DOXORUBICIN EFFECTS ON IRON HOMEOSTASIS**  
Maura Poli, Dr, Federica Maccarinelli, Dr, Vanessa Porrini, Dr, Emiliano Cocco, Dr, Derosas Manuela, Dr, Sara Lusciati, Dr, Paolo Arosio, PhD, Prof and Isabella Zanella, Dr  
Dipartimento Materno Infantile e Tecnologie Biomediche Università Brescia  
(Presented By: Maura Poli, Dr)
- Poster# 59** **A HIGH-THROUGHPUT SIRNA SCREEN FOR HEPCIDIN REGULATORS REVEALS SMAD7 AS A NOVEL NEGATIVE REGULATOR OF HEPCIDIN EXPRESSION**  
Katarzyna Mleczko-Sanecka<sup>1</sup>, Anan Ragab, Dr<sup>2</sup>, Guillem Casanovas, BSc<sup>3</sup>, Michael Boutros, Prof<sup>2</sup>, Matthias W. Hentze, Prof<sup>4</sup> and Martina U. Muckenthaler, Prof<sup>1</sup>  
<sup>1</sup>Molecular Medicine Partnership Unit, Heidelberg University; <sup>2</sup>German Cancer Research Center (DKFZ); <sup>3</sup>Molecular Medicine Partnership Unit; <sup>4</sup>European Molecular Biology Laboratory  
(Presented By: Katarzyna Mleczko-Sanecka)
- Poster# 60** **BONE MORPHOGENETIC PROTEIN (BMP)-RESPONSIVE ELEMENTS LOCATED IN THE PROXIMAL AND DISTAL HEPCIDIN PROMOTER ARE CRITICAL FOR ITS RESPONSE TO HJV/BMP/SMAD**  
Guillem Casanovas<sup>1</sup>, Katarzyna Mleczko-Sanecka<sup>1</sup>, Sandro Altamura<sup>2</sup>, Matthias W. Hentze<sup>1</sup> and Martina U. Muckenthaler<sup>2</sup>  
<sup>1</sup>European Molecular Biology Laboratory, Heidelberg, Germany; <sup>2</sup>Department of Pediatric Hematology, Oncology and Immunology, University of Heidelberg  
(Presented By: Guillem Casanovas)
- Poster# 61** **RENAL HANDLING OF HEPCIDIN**  
Hilde Peters, MD<sup>2</sup>, Coby Laarakkers, BSc, Jack Wetzels and Dorine Swinkels, MD, PhD<sup>1</sup>  
<sup>1</sup>Radboud Department of Clinical Chemistry 441, University Nijmegen Medical Centre; <sup>2</sup>Departments of Clinical Chemistry and Nephrology, Radboud University Nijmegen Medical Centre, Nijmegen, the Netherlands  
(Presented By: Dorine Swinkels, MD, PhD)
- Poster# 62** **FURIN AND MAPK (ERK1/2) PARTICIPATE IN THE REGULATION OF HEPCIDIN EXPRESSION IN HEPG2 CELLS**  
Maura Poli, PhD, Sara Lusciati, PhD, Federica Maccarinelli, PhD, Dario Finazzi, PhD and Paolo Arosio, PhD  
Department MITB, University of Brescia  
(Presented By: Maura Poli, PhD)
- Poster# 63** **PHYSIOLOGIC AND PATHOPHYSIOLOGIC REGULATION OF HEPCIDIN EXPRESSION**  
Tom Bartnikas, MD, PhD and Mark Fleming, MD, DPhil  
Children's Hospital Boston  
(Presented By: Tom Bartnikas, MD, PhD)
- Poster# 64** **SERUM HEPCIDIN LEVELS IN PATIENTS WITH THALASSEMIA OR SICKLE CELL DISEASE: A CONFOUNDING RELATIONSHIP WITH TRANSFUSION CYCLE**  
Patrick Walter, PhD<sup>1</sup>, Zahra Pakbaz, MD<sup>1</sup>, Elizabeta Nemeth, PhD<sup>2</sup>, Roland Fischer, PhD<sup>3</sup>, Tomas Ganz, MD, PhD<sup>2</sup>, Elliott Vichinsky, MD<sup>1</sup>, Ward Hagar, MD<sup>1</sup>, John Porter, MD<sup>4</sup>, Pat Evans, PhD<sup>4</sup>, Matt Hertz, BScs<sup>1</sup>, Lynne Neumayr, MD<sup>1</sup> and Paul Harmatz, MD<sup>1</sup>  
<sup>1</sup>Children's Hospital & Research Center Oakland; <sup>2</sup>University of California Los Angeles; <sup>3</sup>University Medical Center Hamburg-Eppendorf; <sup>4</sup>University College London  
(Presented By: Patrick Walter)
- Poster# 65** **HAEM METABOLISM INHIBITORS AFFECT HEPCIDIN EXPRESSION IN MICE**  
A.H. Laftah, MSc; PhD<sup>1</sup>, A.T. McKie, Prof<sup>2</sup>, S.K. Srari, Prof<sup>3</sup> and R.J. Simpson, Dr<sup>2</sup>  
<sup>1</sup>King's College London; <sup>2</sup>Division of Nutrition, School of Biomedical & Health Sciences, King's College London, London, UK; <sup>3</sup>Department of Structural & Molecular Biology, University College London, London, UK  
(Presented By: A.H. Laftah, MSc, PhD)
- Poster# 66** **CHARACTERISATION OF THE DIVALENT METAL ION BINDING PROPERTIES OF HEPCIDIN BY FTICR MASS SPECTROMETRY**  
Chris Tselepis, Cleidiane Zampronio, Tariq Iqbal and Douglas Ward  
University of Birmingham  
(Presented By: Chris Tselepis)
- Poster# 67** **PREPARATION AND INVESTIGATION OF FLUORESCENT HEPCIDIN IN MDCK CELLS AND MACROPHAGES**  
Dareen Jaiash, BSc (Hons), MSc, A. Parmar, V. Marshal, G.O. Latunde-Dada, R.C. Hider and S. Bansal  
King's College London  
(Presented By: Dareen Jaiash, BSc (Hons))
- Poster# 68** **HEPCIDIN DEFICIENCY IN PATIENTS WITH CHRONIC HEPATITIS C**  
Domenico Girelli, MD<sup>1</sup>, Michela Pasino<sup>2,6</sup>, Julia B. Goodnough<sup>3</sup>, Elizabeta Nemeth<sup>3</sup>, Maria Guido<sup>4</sup>, Annalisa Castagna<sup>2</sup>, Fabiana Busti<sup>2</sup>, Natascia Campostrini<sup>2</sup>, Federica Zaninotto<sup>2</sup>, Nicola Martinelli<sup>2</sup>, Italo Vantini<sup>5</sup>, Roberto Corrocher<sup>2</sup>, Tomas Ganz<sup>3</sup> and Giovanna Fattovich<sup>6</sup>  
<sup>1</sup>University of Verona; <sup>2</sup>Department of Clinical and Experimental Medicine, University of Verona, Verona, Italy; <sup>3</sup>Department of Medicine and Pathology, David Geffen School of Medicine, University of California, Los Angeles, California, USA; <sup>4</sup>Department of Diagnostic Sciences & Special Therapies, University of Padova, Padova, Italy; <sup>5</sup>Department of Biomedical and Surgical Sciences, University of Verona, Verona, Italy; <sup>6</sup>Department of Surgical and Gastroenterological Sciences, University of Verona, Verona, Italy  
(Presented By: Domenico Girelli, MD)

- Poster# 69**      **EFFECTS OF RECOMBINANT HEPcidIN, PROHEPCIDIN AND THEIR FLUORESCENT DERIVATIVES ON FERROPORTIN DEGRADATION**  
 Marie-Agnes Sari, PhD<sup>1</sup>, Bruno Gagliardo<sup>1</sup>, Nicole Kubat<sup>2</sup>, Nicolas Desbenoit<sup>1</sup>, Maryse Jaouen<sup>1</sup>, Jean-Christophe Deschemin<sup>2</sup>, Francois Canonne-Hergaux<sup>3</sup>, Isabelle Artaud<sup>1</sup> and Sophie Vaultont<sup>2</sup>  
<sup>1</sup>Université Paris Descartes, CNRS (UMR 8601), Paris, France; <sup>2</sup>Institut Cochin, Université Paris Descartes, CNRS UMR 8104, Inserm U 567Paris, France; <sup>3</sup>CNRS, Institut de Chimie des Substances Naturelles, Gif-Sur-Yvette, France  
 (Presented By: Marie-Agnes Sari, PhD)
- Poster# 70**      **HIERARCHY BETWEEN ERYTHROPOIESIS AND IRON AS HEPcidIN REGULATORS**  
 Jan Krijt, PhD<sup>1</sup>, Martin Vokurka<sup>2</sup>, Ludek Sefc<sup>2</sup>, Tereza Hlobenova<sup>2</sup> and Emanuel Necas<sup>2</sup>  
<sup>1</sup>Charles University in Prague, First Faculty of Medicine, Institute of Pathophysiology; <sup>2</sup>Charles University in Prague, First Faculty of Medicine, Institute of Pathophysiology and Center of Experimental Hematology  
 (Presented By: Jan Krijt, PhD)
- Poster# 71**      **HEPCIDIN EFFECT ON TRACE ELEMENTS IN SERUM OF WT AND HEPcidIN1 KNOCKOUT MICE**  
 A.H. Laftah, MSc; PhD<sup>1</sup>, A.H. Laftah, PhD<sup>2</sup>, P. Masaratana, PhD<sup>2</sup>, A.T. McKie, PhD, Prof<sup>2</sup>, R.J. Simpson, PhD<sup>2</sup> and K. Raja, PhD<sup>3</sup>  
<sup>1</sup>King's College London; <sup>2</sup>Division of Nutrition, School of Biomedical & Health Sciences, King's College London, London, UK; <sup>3</sup>Department of Clinical Biochemistry, King's College Hospital, London, UK  
 (Presented By: A.H. Laftah, MSc; PhD)
- Poster# 72**      **METABOLIC STEATOSIS AND ALCOHOL-LOADING REGULATE THE EXPRESSION OF TRANSFERRIN RECEPTOR 1 AND HEPcidIN IN MICE LIVER**  
 Takaaki Ohtake, MD, Katsuya Ikuta, MD, PhD, Koji Sawada, MD, Masami Abe, MD, Takaaki Hosoki, MD, Shigeki Miyoshi, MD, Yasuaki Suzuki, MD, Katsunori Sasaki, PhD, Yoshihiro Torimoto, MD, PhD and Yutaka Kohgo, MD, PhD  
 Asahikawa Medical College  
 (Presented By: Takaaki Ohtake, MD)
- Poster# 73**      **HEPCIDIN MEASUREMENT BY QUANTITATIVE SELDI-TOF-MS IN HEMODIALYSIS PATIENTS: EVALUATION OF IRON STATUS DURING ERYTHROPOIESIS-STIMULATING AGENTS THERAPY**  
 Natascia Campostrini, PhD<sup>1</sup>, Annalisa Castagna<sup>2</sup>, Federica Zaninotto<sup>2</sup>, Fabiana Busti<sup>2</sup>, Nicola Tessitore<sup>3</sup>, Albino Poli<sup>4</sup>, Valeria Bedogna<sup>3</sup>, E. Melilli<sup>3</sup>, Oliviero Olivieri<sup>2</sup>, Roberto Corrocher<sup>2</sup>, Antonio Lupo<sup>3</sup> and Domenico Girelli<sup>2</sup>  
<sup>1</sup>University of Verona; <sup>2</sup>Department of Clinical and Experimental Medicine, University of Verona, Verona, Italy; <sup>3</sup>Nephrology Division, University of Verona, Verona, Italy; <sup>4</sup>Public Health Department, University of Verona, Verona, Italy  
 (Presented By: Natascia Campostrini, PhD)
- Poster# 74**      **RADIOIMMUNOASSAY FOR HUMAN SERUM HEPcidIN**  
 Nicolai Grebentchikov, MSc, Anneke Geurts-Moespot, BSc, Joyce Kroot, MSc, Martin den Heijer, MD, PhD, Harold Tjalsma, PhD, Fred Sweep, PhD and Dorine Swinkels, MD, PhD  
 Radboud Department of Clinical Chemistry 441, University Nijmegen Medical Centre  
 (Presented By: Dorine Swinkels, MD, PhD)
- Poster# 75**      **QUANTITATION OF HEPcidIN**  
 Sukhi Bansal, PhD<sup>1</sup>, John Halket, PhD<sup>1</sup>, Adrian Bomford, MBBS, PhD<sup>2</sup>, Robert Simpson, PhD<sup>2</sup>, Nisha Vasavda, PhD<sup>3</sup>, Swee Lay Thein, MBBS PhD<sup>4</sup> and Robert Hider, PhD<sup>5</sup>  
<sup>1</sup>King's College London, Pharmaceutical Sciences Division; <sup>2</sup>King's College London, Nutritional Sciences Division; <sup>3</sup>King's College London, Division of Gene and Cell Based Therapy; <sup>4</sup>King's College London, Department of Hematological Medicine; <sup>5</sup>King's College London Pharmaceutical Sciences Division  
 (Presented By: Sukhi Bansal, PhD)
- Poster# 76**      **CONTRIBUTION OF STAT3 AND SMAD4 PATHWAYS TO THE REGULATION OF HEPcidIN BY OPPOSING STIMULI**  
 Hua Huang, Marco Constante, MSc, Antonio Layoun, BSc and Manuela M. Santos, PhD  
 CRCHUM, University of Montreal  
 (Presented By: Hua Huang)
- Poster# 77**      **REGULATION OF HEPcidIN EXPRESSION DURING PHENYLHYDRAZINE-INDUCED HAEMOLYTIC ANAEMIA IN MICE**  
 Yemisi Latunde-Dada, PhD, Robert Simpson, PhD and Andrew McKie, PhD  
 Kings College London  
 (Presented By: Yemisi Latunde-Dada, PhD)
- Poster# 78**      **HFE MUTATIONS MODULATE THE EFFECT OF IRON STORES AND INFLAMMATION ON SERUM HEPcidIN-25 IN CHRONIC HEMODIALYSIS PATIENTS**  
 Luca Valenti, MD, Domenico Girelli, Giovanni Francesco Valenti, Annalisa Castagna, Giovanna Como, Natascia Campostrini, Raffaella Rametta, Paola Dongiovanni, Piergiorgio Messa and Silvia Fargion  
 University of Milano  
 (Presented By: Luca Valenti, MD)
- Poster# 79**      **HEPCIDIN RESPONSE TO ACUTE ORAL IRON AND CHRONIC IRON OVERLOAD IN DYSMETABOLIC HEPATIC IRON OVERLOAD SYNDROME**  
 Paola Trombini, MD<sup>1</sup>, Valentina Paolini, Sara Pelucchi<sup>2</sup>, Raffaella Mariani, Alessandra Salvioni, Domenico Girelli<sup>3</sup>, Clara Camaschella<sup>4</sup>, Elizabeta Nemeth<sup>5</sup>, Tomas Ganz<sup>5</sup> and Alberto Piperno  
<sup>1</sup>Clinical Medicine, San Gerardo Hospital; <sup>2</sup>University of Milano-Bicocca, Monza, Italy; <sup>3</sup>University of Verona, Italy; <sup>4</sup>San Raffaele University, Milano, Italy; <sup>5</sup>Departments of Medicine and Pathology, UCLA, USA  
 (Presented By: Paola Trombini, MD)

- Poster# 80 THE IRON-REGULATING HORMONE HEPcidIN IS EXPRESSED IN BLADDER CANCER TISSUE AND CORRELATES TO POOR PATIENT SURVIVAL**  
Maciej Bogdan Maniecki, MHSc<sup>1</sup>, Benedicte Parm Ulhøi, MD<sup>2</sup>, Henrik Schmidt, MD, DMSc<sup>3</sup>, Lars Dyrskjøt, MSc, PhD<sup>4</sup>, Torben Falck Ørntoft, MD, DMSc<sup>4</sup>, Søren Kragh Moestrup, MD, DMSc<sup>5</sup> and Holger Jon Møller, MD, PhD<sup>1</sup>  
<sup>1</sup>Department of Clinical Biochemistry, Århus Sygehus, Aarhus University Hospital; <sup>2</sup>Institute of Pathology, Århus Sygehus, Aarhus University Hospital; <sup>3</sup>Cancer Immunotherapy Group, Department of Oncology, Aarhus University Hospital; <sup>4</sup>Molecular Diagnostic Laboratory, Department of Molecular Medicine, Aarhus University Hospital, Skejby; <sup>5</sup>Institute of Medical Biochemistry, Aarhus University  
(Presented By: Maciej Bogdan Maniecki, MHSc)
- Poster# 81 FIRST DUTCH PATIENT WITH MAPTRIPtASE-2 MUTATION LEADING TO IRON-REFRACTORY IRON DEFICIENT ANEMIA**  
Marloes Cuijpers, MD, Erwin Wiegerinck, Theo de Witte, Prof and Dorine Swinkels, MD, PhD, Prof  
Radboud University Nijmegen Medical Centre  
(Presented By: Marloes Cuijpers, MD)
- Poster# 82 COMBINED DELETION OF HFE AND TRANSFERRIN RECEPTOR 2 IN MICE LEADS TO MARKED DYSREGULATION OF HEPcidIN AND IRON OVERLOAD**  
Nathan Subramaniam, PhD, Lesa Summerville, Emily Crampton, David Frazer, Greg Anderson and Daniel Wallace  
Queensland Institute of Medical Research  
(Presented By: Nathan Subramaniam, PhD)
- Poster# 83 DISRUPTION OF BOTH HFE AND TFR2 CAUSES MORE SEVERE HEPATIC IRON OVERLOAD IN HEREDITARY HAEMOCHROMATOSIS**  
Roheeth Delima, BSc (Hons), Anita Chua, Carly Herbison, Ross M. Graham, John Olynyk and Debbie Trinder  
University of Western Australia  
(Presented By: Roheeth Delima, BSc (Hons))
- Poster# 84 EXTRA-HEPATIC HFE FUNCTIONS MAY BE RESPONSIBLE FOR IRON OVERLOAD IN THE HEART AND ALTERATION WITHIN THE ERYTHRON**  
Maja Vujic Spasic, PhD<sup>1</sup>, Matthias Hentze, Prof MD<sup>2</sup> and Martina Muckenthaler, Prof PhD<sup>1</sup>  
<sup>1</sup>University Hospital of Heidelberg; <sup>2</sup>EMBL, Heidelberg, Germany  
(Presented By: Maja Vujic Spasic, PhD)
- Poster# 85 HFE POLYMORPHISMS AFFECT CHOLESTEROL METABOLISM: INSIGHTS INTO NEURODEGENERATIVE DISEASES**  
Fatima Ali-Rahmani, Sang Lee, James Connor and Cara-Lynn Schengrund  
Pennsylvania State University  
(Presented By: James Connor)
- Poster# 86 HFE POLYMORPHISMS AND DRUG RESISTANCE IN CANCER**  
Sang Lee, PhD, Siying Liu, Becky Slagle-Webb, Elana Farace, PhD, Jonas Sheehan, MD and James Connor, PhD  
Penn State College of Medicine  
(Presented By: Sang Lee, PhD)
- Poster# 87 DIFFERENT EFFECTS ON IRON CONTENT IN THE LIVER AND SPLEEN OF HFE-KO MICE AFTER HEPATIC INJECTION OF A LENTIVIRAL VECTOR BEARING THE HFE GENE**  
Pedro Ramos<sup>1</sup>, Sara Gardenghi, PhD<sup>1</sup>, Ella Guy<sup>1</sup>, Nan Chan<sup>1</sup>, Antonia Follenzi, PhD<sup>2</sup>, Robert W Grady, PhD<sup>1</sup>, Maria de Sousa, MD, PhD<sup>3</sup> and Stefano Rivella, PhD<sup>1</sup>  
<sup>1</sup>Weill Cornell Medical College, New York; <sup>2</sup>Albert Einstein, New York; <sup>3</sup>IBMC, Porto  
(Presented By: Pedro Ramos)
- Poster# 88 HFE IS ESSENTIAL TO INDUCE HEPcidIN AND TO DEVELOP HYPOFERREMIA IN RESPONSE TO LOW DOSES OF LPS**  
Maja Vujic Spasic, PhD, Richard Sparla, Dipl, Judit Kiss, PhD, Jens Stolte, Dipl, Birgit Rathkolb, PhD, Matthias Hentze, PhD and Martina Muckenthaler, PhD  
University Hospital of Heidelberg  
(Presented By: Maja Vujic Spasic, PhD)
- Poster# 89 REDUCED SERUM TRANSFERRIN LEVELS CHARACTERISE IRON-LOADED C282Y HAEMOCHROMATOSIS DESPITE UPREGULATED HEPATIC TRANSFERRIN TRANSCRIPTION**  
John D. Ryan, MBBCh<sup>1</sup>, Eleanor Ryan, PhD<sup>2</sup>, Matthew Lawless, PhD<sup>2</sup>, Jennifer Russell, PhD<sup>2</sup>, Jens Stolte<sup>3</sup>, Martina U. Muckenthaler, PhD<sup>3</sup>, T. Barry Kelleher, MD<sup>2</sup> and John Crowe, PhD<sup>2</sup>  
<sup>1</sup>Centre for Liver Disease; <sup>2</sup>Centre for Liver Disease, Mater Misericordiae University Hospital, Dublin, Ireland; <sup>3</sup>Department of Pediatric Hematology, Oncology and Immunology, University of Heidelberg, Germany  
(Presented By: John D. Ryan, MBBCh)
- Poster# 90 HEMOJUVELIN IN MOUSE TISSUES**  
Yuzo Fujikura, PhD, Jan Krijt, PhD and Emanuel Necas, MD, PhD  
Charles University in Prague  
(Presented By: Yuzo Fujikura, PhD)
- Poster# 91 HOMOZYGOUS DELETION OF HFE AS A CAUSE OF HEMOCHROMATOSIS IN SARDINIA**  
Sara Pelucchi<sup>1</sup>, Raffaella Mariani, Matteo Pozzi, Francesca Bertola<sup>2</sup>, Sabina Coletti, Cristina Arosio<sup>2</sup> and Alberto Piperno  
<sup>1</sup>University of Milano-Bicocca; <sup>2</sup>Consortium of Human Molecular Genetics  
(Presented By: Alberto Piperno)

- Poster# 92**      **HFE PROTEIN PRODUCED IN EUKARYOTIC CELLS BINDS THE CATION INDEPENDENT MANNOSE-6-PHOSPHATE RECEPTOR IN VITRO**  
Lisa Schimanski, BSc, MSc, Hal Drakesmith, Emma Sweetland, Mariola Edelmann, Dellel Razgui, Chandran Ka, Alison Merryweather-Clarke, Kathryn Robson, Benedikt Kessler and Alain Townsend  
Oxford University  
(Presented By: Lisa Schimanski, BSc, MSc)
- Poster# 93**      **E277K AND V295A HFE MUTATIONS – A MATTER OF  $\alpha$ 3-DOMAIN LOCATION?**  
B. Silva, R. Martins, D. Proença, R. Fleming and P. Faustino  
Departamento de Genética, Instituto Nacional de Saúde Dr. Ricardo Jorge, Lisboa, Portugal  
(Presented By: B. Silva)
- Poster# 94**      **DIFFERENTIAL EXPRESSION OF HFE SPLICE VARIANTS**  
D. Proença<sup>2</sup>, R. Martins<sup>1</sup>, B. Silva and P. Faustino  
<sup>1</sup>Instituto Nacional de Saude Dr. Ricardo Jorge; <sup>2</sup>Departamento de Genética, Instituto Nacional de Saude Dr. Ricardo Jorge, Lisboa, Portugal  
(Presented By: R. Martins)