

- Poster# 188 IRONING OUT FRIEDREICH'S ATAXIA: THE MOLECULAR CHANGES BEHIND MITOCHONDRIAL IRON-LOADING AND EXPLORATION OF IRON-CHELATION THERAPY FOR TREATMENT**  
D.R. Richardson, M. Whitnall, Y. Suryo Rahmanto, R. Sutak, X. Xu, E. Becker, M.R. Mikhael and P. Ponka  
Iron Metabolism and Chelation Program, Department of Pathology and Bosch Institute, University of Sydney, Sydney, New South Wales, Australia  
(Presented By: D.R. Richardson)
- Poster# 189 FURIN EXPRESSION IS DECREASED IN THE LIVER OF HFE-HEMOCHROMATOSIS PATIENTS**  
Donatella Barisani, MD<sup>2</sup>, Sara Pelucchi, PhD<sup>1</sup>, Alessandra Pansa, PhD<sup>3</sup>, Raffaella Meneveri, PhD<sup>3</sup>, Paola Trombini, MD<sup>1</sup>, Alessandra Salvioni, MD<sup>1</sup>, Raffaella Mariani, MD<sup>1</sup> and Alberto Piperno, MD<sup>1</sup>  
<sup>1</sup>Department of Clinical Medicine, University of Milano-Bicocca, San Gerardo Hospital, Monza, Italy; <sup>2</sup>Faculty of Medicine, University of Milano-Bicocca, Monza, Italy; <sup>3</sup>Department of Experimental Medicine, University of Milano-Bicocca, Monza, Italy  
(Presented By: Alberto Piperno, MD)  
(Presented By: Alberto Piperno, MD)
- Poster# 190 LIVER TRANSCRIPTOME OF THE F2 PROGENY OF B6 AND D2 HFE-DEFICIENT MICE: ROLE OF IRON LOADING AND GENETIC BACKGROUND.**  
Annabelle Monnier<sup>1</sup>, Léon Kautz, PhD student<sup>2</sup>, Régis Bouvet, Technical support<sup>3</sup>, Valérie Darnaud, Technical support<sup>2</sup>, Héléne Coppin, DR<sup>2</sup>, Marie-Paule Roth, MD<sup>2</sup> and Jean Mosser, PU-PH<sup>4</sup>  
<sup>1</sup>RT0 Team UMRCNRS6061; <sup>2</sup>Centre de Physiopathologie of Toulouse Purpan, INSERM U563 Département de génétique- Toulouse-France; <sup>3</sup>platform OUEST-genopole@-Rennes-France; <sup>4</sup>UMRCNRS6061/platform OUEST-genopole@/Hospital Medical Genomics Laboratory  
(Presented By: Annabelle Monnier)
- Poster# 191 INTERACTION OF DEFERASIROX (ICL670) WITH METAL IONS USED IN CONTRAST AGENTS**  
Nadine Jane Koch<sup>1</sup>, Stefan Stucky, Dipl Chem<sup>1</sup>, Kaspar Hegetschweiler, Prof Dr<sup>1</sup> and Hanspeter Nick<sup>2</sup>  
<sup>1</sup>Saarland University; <sup>2</sup>Novartis Pharma AG Research, Basel, Switzerland  
(Presented By: Stefan Stucky, Dipl Chem)
- Poster# 192 A NOVEL SIMULTANEOUS QUANTITATIVE METHOD FOR HEPCIDIN ISOFORMS USING LIQUID CHROMATOGRAPHY TANDEM MASS SPECTROMETRY**  
Katsuya Ikuta, MD, PhD<sup>1</sup>, Yasushi Shimonaka<sup>2</sup>, Takaaki Hosoki, MD<sup>3</sup>, Yusuke Sasaki<sup>2</sup>, Hideyuki Yasuno<sup>2</sup>, Takaaki Ohtake, MD, PhD<sup>3</sup>, Katsunori Sasaki, PhD<sup>4</sup>, Yoshihiro Torimoto, MD, PhD<sup>5</sup>, Keiji Saito, PhD<sup>2</sup> and Yutaka Kohgo, MD, PhD<sup>3</sup>  
<sup>1</sup>Asahikawa Medical College; <sup>2</sup>Kamakura Research Labs, Chugai Pharmaceutical Co., Ltd.; <sup>3</sup>Division of Gastroenterology and Hematology/Oncology, Department of Medicine, Asahikawa Medical College; <sup>4</sup>Department of Gastrointestinal Immunology and Regenerative Medicine, Asahikawa Medical College; <sup>5</sup>Oncology Center, Asahikawa Medical College Hospital  
(Presented By: Katsuya Ikuta, MD, PhD)
- Poster# 193 CARDIAC GENE EXPRESSION IN MOUSE MODELS OF IRON LOADING DISORDERS**  
Sharon Hollins, N/A, Daniel Johnstone, Ross Graham, PhD, Dirk van Helden, PhD, Karen Kerr, PhD, Derek Laver, PhD, Kirsty Metelerkamp, N/A, Deborah Trinder, PhD, Robert Fleming, MD, Rodney Scott, PhD, John Olynyk, MD and Liz Milward, PhD  
University of Newcastle  
(Presented By: Daniel Johnstone)
- Poster# 194 PROPERTIES OF THE METAL-ION TRANSPORTER ZIP14 SUGGEST A ROLE IN CELLULAR UPTAKE OF NONTRANSFERRIN-BOUND IRON (NTBI) CHARACTERISTIC OF IRON-OVERLOAD CONDITIONS**  
Jorge J. Pinilla Tenas<sup>1</sup>, Brian K. Sparkman<sup>1</sup>, Anthony C. Illing<sup>1</sup>, Ali Shawki<sup>1</sup>, Juan P. Liuzzi<sup>2</sup>, Robert J. Cousins<sup>2</sup>, Mitchell D. Knutson<sup>2</sup> and Bryan Mackenzie<sup>1</sup>  
<sup>1</sup>University of Cincinnati College of Medicine; <sup>2</sup>University of Florida  
(Presented By: Jorge J. Pinilla Tenas)
- Poster# 195 MORTALITY AMONG PATIENTS WITH PHENOTYPIC HEREDITARY HEMOCHROMATOSIS AND AMONG THEIR FAMILY MEMBERS: ARE FIRST-DEGREE RELATIVES AT INCREASED RISK?**  
Maria ElMBERG, MD, Rolf Hultcrantz, MD, Anders Ekbom, MD, Stefan Lindgren, MD and Johan Askling, MD  
Karolinska  
(Presented By: Rolf Hultcrantz, MD)
- Poster# 196 BONE STATUS IN A MOUSE MODEL OF GENETIC HEMOCHROMATOSIS**  
Pascal Guggenbuhl, MD, PhD<sup>1</sup>, Patricia Fergelot, MD, PhD<sup>2</sup>, Héléne Libouban, PhD<sup>3</sup>, Marie-Paule Roth, MD, PhD<sup>4</sup>, Yves Gallois, PhD<sup>5</sup>, Olivier Loréal, MD, PhD<sup>6</sup>, Gerard Chales, MD<sup>7</sup> and Daniel Chappard, MA, PhD<sup>3</sup>  
<sup>1</sup>Rheumatology Department University Hospital, Rennes, France; <sup>2</sup>CNRS UMR 6061, Rennes; <sup>3</sup>INSERM, EMI 00335, Angers, France; <sup>4</sup>INSERM, U563, IFR 130, Toulouse; <sup>5</sup>INSERM, EMI 00335, Angers; <sup>6</sup>INSERM U522, IFR 140, Rennes 1, France; <sup>7</sup>Rheumatology Department, University Hospital, Rennes  
(Presented By: Pascal Guggenbuhl, MD, PhD)
- Poster# 197 COORDINATION CHEMISTRY OF TWO METABOLITES OF DEFERASIROX (ICL670) AND THE CRYSTAL STRUCTURE OF AN IRON-DEFERASIROX-COMPLEX**  
Stefan Stucky, Dipl Chem<sup>1</sup>, Kaspar Hegetschweiler<sup>1</sup> and Hanspeter Nick<sup>2</sup>  
<sup>1</sup>Saarland University; <sup>2</sup>Novartis Pharma AG Research (Basel, Switzerland)  
(Presented By: Stefan Stucky, Dipl Chem)

- Poster# 198**    **MUTATION ANALYSIS OF GENES INVOLVED IN IRON REGULATION IN AN INDIAN FAMILY PRESENTING WITH IRON OVERLOAD**  
Michelle-Angelique Hallendorff, MSc<sup>1</sup>, Nathaniel McGregor, HonsBSc<sup>1</sup>, Richard Hift, MD<sup>2</sup> and Monique Zaahl, PhD<sup>1</sup>  
<sup>1</sup>Stellenbosch University; <sup>2</sup>University of KwaZulu-Natal  
(Presented By: Monique Zaahl, PhD)
- Poster# 199**    **WITHDRAWN**  
**IRON ABSORPTION IN DYSMETABOLIC IRON OVERLOAD SYNDROME IS DECREASED CORRELATING WITH INCREASED PLASMA HEPcidIN**  
Fabrice Lainé, MD<sup>1</sup>, Marc Ruivard, MD<sup>2</sup>, Tomas Ganz, MD, PhD<sup>3</sup>, Gordana Olbina, PhD<sup>3</sup>, Mark Westerman, PhD<sup>3</sup>, Mathieu Rambeau, PhD<sup>4</sup>, André Mazur, PhD<sup>4</sup>, Laurent Gerbaud, PhD<sup>2</sup>, Valérie Tournilhac, MD<sup>2</sup>, Armand Abergel, MD, PhD<sup>2</sup>, Pierre Philippe, MD<sup>2</sup>, Charles Coudray, PhD<sup>4</sup> and Yves Deugnier, MD<sup>5</sup>  
<sup>1</sup>CIC INSERM 0203; <sup>2</sup>CHU, Clermont-Ferrand, France; <sup>3</sup>University of California, Los Angeles, USA; <sup>4</sup>INRA, Clermont-Ferrand, France; <sup>5</sup>INSERM CIC 203 and U 522, Rennes, France
- Poster# 200**    **MULTIPLE PREGNANCIES DO NOT REDUCE BODY IRON STORES IN THE HFE-/-MOUSE MODEL OF HEMOCHROMATOSIS**  
Pedro Rodrigues, PhD, João Neves, Ellin Weber, Graça Porto, PhD and Anna Olsson, PhD  
IBMC, University of Porto  
(Presented By: Pedro Rodrigues, PhD)
- Poster# 201**    **HAEMOCHROMATOSIS-ASSOCIATED GENES IN THE ZEBRAFISH**  
Chun Yu Lok, A.T. Merryweather-Clarke, P. Pinheiro, R. Patient and K.J.H. Robson  
Weatherall Institute of Molecular Medicine  
(Presented By: Chun Yu Lok)
- Poster# 202**    **THE EFFECT OF DIETARY IRON ON TISSUE IRON LEVELS IN INTACT AND SPLENECTOMIZED MICE AFFECTED BY Beta-THALASSEMIA**  
Maria Marongiu, PhD, Kristen Muirhead, BS, Sara Gardenghi, PhD, Ella Guy, Stefano Rivella, PhD and Robert Grady, PhD  
Weill Cornell Medical College  
(Presented By: Robert Grady, PhD)
- Poster# 203**    **SYNTHESIS AND COMPLEX FORMATION OF WATER SOLUBLE DERIVATIVES OF THE IRON-CHELATING LIGAND DEFERASIROX (ICL670)**  
Nadine Jane Koch, Dipl Chem, Frank Teucke and Kaspar Hegetschweiler, Prof Dr  
Saarland University  
(Presented By: Nadine Jane Koch)
- Poster# 204**    **DISTRIBUTION AND CHEMICAL SPECIATION OF IRON DEPOSITS IN HEARTS FROM TRANSFUSION DEPENDENT PATIENTS**  
Tim St. Pierre, PhD<sup>1</sup>, Dudley Pennell<sup>2</sup>, Adam Fleming<sup>1</sup>, Mike House<sup>1</sup>, Greg Black<sup>1</sup>, Paul Kirk<sup>2</sup>, John Paul Carpenter<sup>2</sup>, Lisa Anderson<sup>2</sup> and Taigang He<sup>2</sup>  
<sup>1</sup>The University of Western Australia; <sup>2</sup>Royal Brompton Hospital and Imperial College, London  
(Presented By: Tim St. Pierre)
- Poster# 205**    **MUTATION ANALYSIS OF HEPcidIN AND FERROPORTIN GENES: POSSIBLE RELATIONSHIP WITH IRON OVERLOAD IN ITALIAN PROSPECTIVE BLOOD-DONORS**  
Lorena Duca, Biology, Paola Delbini, Biotechnology, Isabella Nava, Biology, Valentina Vaja, Biotechnology, Gemino Fiorelli, Medicine and Maria Domenica Cappellini, Medicine  
<sup>1</sup>Policlinico, Mangiagalli, and Regina Elena Hospital IRCCS Foundation, University of Milan  
(Presented By: Lorena Duca, Biology)
- Poster# 206**    **PRELIMINARY STUDY ON GENETIC MODIFIERS THAT MAY INFLUENCE THE IRON OVERLOAD IN SUBJECTS WITH H63D MUTATION**  
Isabella Nava, Biology, Paola Delbini, Biotechnology, Lorena Duca, Biology, Gemino Fiorelli, Medicine and Maria Domenica Cappellini, Medicine  
Policlinico, Mangiagalli, and Regina Elena Hospital IRCCS Foundation, University of Milan  
(Presented By: Lorena Duca)
- Poster# 207**    **IRON-CHELATOR-THERAPY RESTORES MAJOR SYMPTOMS OF A FEMALE PATIENT SUFFERING FROM MICROCYTIC ANEMIA AND SEVERE IRON-OVERLOAD OF THE BONE-MARROW AND THE LIVER**  
Wolfgang Gilles, PhD<sup>1</sup>, Sandro Altamura, PhD<sup>1</sup>, Mayka Sanchez, PhD<sup>2</sup>, Christa Flechtenmacher, MD<sup>1</sup>, Thomas Herrmann, MD<sup>1</sup>, Martina U. Muckenthaler, Prof<sup>1</sup> and Wolfgang Stremmel, Prof<sup>1</sup>  
<sup>1</sup>University of Heidelberg; <sup>2</sup>EMBL Heidelberg  
(Presented By: Wolfgang Gilles, PhD)
- Poster# 208**    **IS IRON OVERLOAD IN ALCOHOL-RELATED CIRRHOSIS MEDIATED BY HEPcidIN?**  
Tariq Iqbal<sup>1</sup>, Azzam Diab, MRCP<sup>1</sup>, Douglas Ward, BSc, PhD<sup>2</sup>, Matthew Brookes, PhD, MRCP<sup>2</sup> and Chris Tselepis, BSc, PhD<sup>2</sup>  
<sup>1</sup>University Hospital Birmingham; <sup>2</sup>University of Birmingham  
(Presented By: Tariq Iqbal)

- Poster# 209 USEFULNESS OF MAGNETIC RESONANCE IMAGING FOR NON-INVASIVE TISSUE AND HISTOLOGICAL CHARACTERIZATION OF IRON OVERLOAD DEPOSITS IN MICE**  
Eric Hitti, PhD<sup>5,6</sup>, Pierre-Antoine Eliat, PhD<sup>2</sup>, Emmanuelle Abgueguen, PhD<sup>5,7</sup>, Bruno Turlin, MD, PhD<sup>5,7</sup>, Hervé Saint-Jalmes, MD, PhD<sup>3</sup>, Pierre Brissot, MD<sup>5,7</sup>, Yves Gandon, MD<sup>4</sup> and Olivier Loréal, MD, PhD<sup>1</sup>  
<sup>1</sup>INSERM U522; <sup>2</sup>Prism IFR 140 GFAS, University of Rennes 1, Rennes, France; <sup>3-5</sup>Departement d'imagerie, Centre Eugène Marquis; <sup>4</sup>Imaging Departement, University Hhospital, Rennes, France; <sup>5</sup>IFR140; <sup>6</sup>University of Rennes 1, Rennes, France; <sup>7</sup>University of Rennes 1, Rennes  
(Presented By: Olivier Loréal, MD, PhD)
- Poster# 210 THE EFFECT OF ACCESS TO NON-INVASIVE LIVER IRON CONCENTRATION MEASUREMENTS ON PATIENTS AT RISK OF IRON OVERLOAD FROM MULTIPLE BLOOD TRANSFUSIONS: AN AUDIT AND RETROSPECTIVE STUDY**  
Tim St. Pierre, PhD<sup>1</sup>, Greg Brown<sup>2</sup>, Nigel Patton<sup>3</sup>, Heather Tapp<sup>4</sup> and James Taylor<sup>2</sup>  
<sup>1</sup>The University of Western Australia; <sup>2</sup>Royal Adelaide Hospital; <sup>3</sup>Auckland City Hospital; <sup>4</sup>Children, Youth, and Womens Health Service, South Australia  
(Presented By: Tim St. Pierre, PhD)
- Poster# 211 LIVER IRON OVERLOAD IN NON HFE RELATED HYPERFERRITINEMIC PATIENTS**  
Gian Luca Forni, MD, Manuela Balocco, MD, Roberto Villa, MD, Cinzia Bruzzone, Phisician, Andrea Macco, Phisician and Barbara Giancesin, Phisician  
Centro della Microcitemia e delle Anemie Congenite, Ospedale Galliera, Genova  
(Presented By: Gian Luca Forni, MD)
- Poster# 212 INTESTINAL IRON ABSORPTION DURING PHLEBOTOMY THERAPY IN PATIENTS AFFECTED BY HEMOCHROMATOSIS TYPE 1**  
Gian Luca Forni, MD, Roberto Villa, MD, Manuela Balocco, MD, Andrea Macco, Physician, Barbara Giancesin, Physician and Cinzia Bruzzone, Physician  
Centro della Microcitemia e delle Anemie Congenite, Ospedale Galliera, Genova  
(Presented By: Gian Luca Forni, MD)
- Poster# 213 ASSOCIATION BETWEEN HFE GENOTYPE AND IRON OVERLOAD IN PATIENTS WITH LIVER DISEASES FROM WESTERN ROMANIA**  
Adriana Maria Neghina<sup>1</sup>, Ketil Thorstensen, PhD<sup>3</sup>, Andrei Anghel, PhD<sup>2</sup>, Iosif Marincu, MD, PhD<sup>2</sup> and Raul Neghina, MD<sup>2</sup>  
<sup>1</sup>Victor Babes University of Medicine and Pharmacy; <sup>2</sup>Victor Babes University of Medicine and Pharmacy, Timisoara, Romania; <sup>3</sup>Department of Medical Biochemistry, St. Olavs Hospital, Trondheim, Norway  
(Presented By: Adriana Maria Neghina)
- Poster# 214 FREQUENCY OF C282Y AND H63D MUTATIONS OF THE HEMOCHROMATOSIS GENE IN A NORTHEASTERN BRAZILIAN POPULATION**  
Luiz Silva, Jr., MD<sup>1</sup>, Andre Silva, MD<sup>2</sup>, Adavio Silva, MD<sup>3</sup> and Jairo C. Cavalcante, Statical<sup>4</sup>  
<sup>1</sup>Souza Junior Laboratorio Medico; <sup>2</sup>Hospital A. C. Camargo; <sup>3</sup>Hospital da Beneficiencia Portuguesa; <sup>4</sup>PMM  
(Presented By: Luiz Silva, Jr., MD)
- Poster# 215 IRON CHELATION IN PATIENTS WITH THALASSEMIA INTERMEDIA AND OTHER NON TRANSFUSION DEPENDENT CONGENITAL HEMOLYTIC ANEMIAS**  
Alexandra Pereira, MD<sup>1</sup>, Maria Pedro Silveira, MD<sup>2</sup> and Maria Leticia Ribeiro, MD, PhD<sup>3</sup>  
<sup>1</sup>Departamento de Hematologia, Centro Hospitalar de Coimbra; <sup>2</sup>Serviço de Hematologia, Centro Hospitalar de Lisboa Ocidental, E.P.E, Portugal; <sup>3</sup>hematologia, Centro Hospitalar de Coimbra, E.P.E., Portugal  
(Presented By: Alexandra Pereira, MD)
- Poster# 216 HYPERFERRITINEMIA CATARACT SYNDROME, IS THERE A RENAL COMPONENT?**  
Samuel Krikler, MBChB, FRCPC, Chris Whittington, MBBS, Anthony Vivian, MBBS and Daniel Schwartz, MD  
University of British Columbia  
(Presented By: Samuel Krikler, MBChB, FRCPC)
- Poster# 217 HEREDITARY HEMOCROMATOSIS AND DIABETES MELLITUS (DM), CAUSE OR COINCIDENCE? A NORTHEASTERN BRAZILIAN EXPERIENCE**  
Luiz Silva, Jr., MD<sup>1</sup>, Andre Silva, MD<sup>2</sup>, Adavio Silva, MD<sup>3</sup> and Jairo Cavalcante, Statistical<sup>4</sup>  
<sup>1</sup>Souza Junior Laboratorio Medico; <sup>2</sup>Hospital A.C. Camargo; <sup>3</sup>Hospital da Beneficiencia Portuguesa; <sup>4</sup>PMM  
(Presented By: Luiz Silva, Jr., MD)
- Poster# 218 PILOT PHARMACOKINETIC STUDY IN PATIENTS WITH INADEQUATE RESPONSE TO DEFERASIROX (EXJADE)**  
S. Deborah Chirnomas, MD<sup>1</sup>, Amber Smith, BA<sup>2</sup>, Luis Pereira, PhD<sup>3</sup>, Jennifer Braunstein, PNP<sup>4</sup>, Carole Paley, MD<sup>5</sup> and Ellis Neufeld, MD, PhD<sup>2</sup>  
<sup>1</sup>Children's Hospital Boston; <sup>2</sup>Children's Hospital Boston/Hematology/Oncology; <sup>3</sup>Children's Hospital, Boston/Clinical Pharmacology Unit; <sup>4</sup>Children's Hospital Boston/Hematology/Oncology; <sup>5</sup>Novartis Pharmaceuticals  
(Presented By: S. Deborah Chirnomas, MD)
- Poster# 219 MITOCHONDRIAL DYSFUNCTION MAY EXPLAIN THE CARDIOMYOPATHY OF CHRONIC IRON OVERLOAD**  
John Eaton, PhD, MDhc  
University of Louisville  
(Presented By: John Eaton, PhD, MDhc)
- Poster# 220 THE IRON CHELATOR DEXRAZOXANE PROTECTS CARDIOMYOCYTES FROM DOXORUBICIN-MEDIATED CELL DEATH: ROLE OF HIF-1**  
Lorenza Tacchini, PhD, Stefania Recalcati, MD, PhD, Rosalin Spagnuolo, PhD and Gaetano Cairo, PhD  
University of Milan  
(Presented By: Gaetano Cairo, PhD)

- Poster# 221 INCREASED IRON ABSORPTION IS ASSOCIATED WITH UPREGULATION OF DUODENAL DMT1, DCYTB AND HEPHAESTIN EXPRESSION IN PATIENTS WITH NONALCOHOLIC STEATOHEPATITIS**  
Masayoshi Kobune, MD, and PhD, Kohichi Takada, MD, PhD, Yutaka Kawano, MD, PhD, Koji Miyanishi, MD, PhD, Hiroyuki Nagahima, MD, PhD, Rishu Takimoto, MD, PhD, Shohei Kikuchi, MD, Tsutomu Sato, MD, PhD, Yasushi Sato, MD, PhD, Yoshiro Niitsu, MD, PhD and Junji Kato, MD, PhD  
Fourth Department of Internal Medicine, Sapporo Medical University School of Medicine  
(Presented By: Masayoshi Kobune, MD)
- Poster# 222 THE COMPARATIVE ANALYSES OF SINGLE NUCLEOTIDE POLYMORPHISM OF OXIDATIVE DNA REPAIR GENES IN PATIENTS WITH HCV-RELATED LIVER DISEASE**  
Koji Miyanishi, MD, and PhD, Masayoshi Kobune, MD, PhD, Yutaka Kawano, MD, PhD, Hiroyuki Nagahima, MD, PhD, Shohei Kikuchi, MD, Kohichi Takada, MD, PhD, Rishu Takimoto, MD, PhD, Tsutomu Sato, MD, PhD, Yasushi Sato, MD, PhD, Yoshiro Niitsu, MD, PhD and Junji Kato, MD, PhD  
Fourth Department of Internal Medicine, Sapporo Medical University School of Medicine  
(Presented By: Koji Miyanishi, MD)
- Poster# 223 THE CLINICAL AND GENETIC SPECTRUM OF Tmprss6 MUTATIONS LEADING TO INAPPROPRIATE HEPICIDIN EXPRESSION AND IRON REFRACTORY IRON DEFICIENCY ANEMIA (IRIDA)**  
Matthew Heeney, MD, Dean Campagna and Mark Fleming, MD, DPhil  
Children's Hospital Boston  
(Presented By: Matthew Heeney, MD)
- Poster# 224 GENOME-WIDE ASSOCIATION STUDY OF IRON DEFICIENCY**  
C.E. McLaren, PhD<sup>1</sup>, C.P. Garner, PhD<sup>1</sup>, C.C. Constantine, PhD<sup>2</sup>, S. Masle, PhD<sup>4</sup>, C.D. Vulpe, MD, PhD<sup>4</sup>, B.M. Snively, PhD<sup>13</sup>, D.A. Nickerson, PhD<sup>11</sup>, J.D. Cook, MD<sup>12</sup>, C. Leindecker-Foster, MS<sup>5</sup>, K.B. Beckman, MS<sup>5</sup>, J.H. Eckfeldt, MD<sup>5</sup>, V.R. Gordeuk, MD<sup>3</sup>, L.F. Barcellos, PhD<sup>4</sup>, A. Killeen, MD<sup>5</sup>, J.A. Murray, MD<sup>6</sup>, P.C. Adams, MD<sup>7</sup>, R.T. Acton, PhD<sup>8</sup>, D.M. Reboussin, PhD<sup>13</sup>, K. Goddard, PhD<sup>9</sup> and G.D. McLaren, MD<sup>10</sup>  
<sup>1</sup>University of California, Irvine; <sup>2</sup>University of Melbourne, Australia; <sup>3</sup>Howard University; <sup>4</sup>University of California, Berkeley; <sup>5</sup>University of Minnesota; <sup>6</sup>Mayo Clinic; <sup>7</sup>London Health Sciences Centre, London, Ontario; <sup>8</sup>University of Alabama at Birmingham; <sup>9</sup>Kaiser Permanente Northwest; <sup>10</sup>Univ. of California, Irvine, and Department of Veterans Affairs Medical Center, Long Beach, CA; <sup>11</sup>University of Washington; <sup>12</sup>University of Kansas; <sup>13</sup>Wake Forest University School of Medicine  
(Presented By: C.E. McLaren, PhD)
- Poster# 225 IRON DEFICIENCY DETECTED BY ESTIMATION OF BODY IRON IN A PRIMARY CARE POPULATION: PREVALENCE AND ETIOLOGY**  
Gordon D. McLaren, MD<sup>1</sup>, Joanna A. Kolodney, MD<sup>1</sup>, Naveen Doki, MD<sup>1</sup>, Wen-Pin Chen, MS<sup>1</sup>, Sakineh Khalaghizadeh, BS<sup>1</sup>, Mahmood Novin, MD<sup>1</sup>, James D. Cook, MD<sup>2</sup>, Mazen Jamal, MD, MPH<sup>1</sup> and Christine E. McLaren, PhD<sup>1</sup>  
<sup>1</sup>Dept. of Veterans Affairs Long Beach Healthcare System, Long Beach, and University of California, Irvine, CA; <sup>2</sup>University of Kansas Medical Center, Kansas City, KS, USA  
(Presented By: Gordon D. McLaren, MD)
- Poster# 226 IRON UTILISATION FROM ORAL IRON TREATMENT IS DEPENDENT FROM THE INDIVIDUAL BLEEDING RATE IN PATIENTS WITH HYPERMENORRHEA OR GASTROINTESTINAL HEMORRHAGE**  
Peter Nielsen, Rosemarie Kongi and Roland Fischer, PhD  
University Hospital, Hamburg  
(Presented By: Peter Nielsen)
- Poster# 227 THE MENKES COPPER ATPASE (ATP7A) GENE ENCODES TWO NUCLEAR PROTEIN VARIANTS THAT INTERACT WITH DNA AND ARE INDUCED DURING IRON DEFICIENCY**  
James Collins, PhD, Yan Lu, BS and P.N. Ranganathan, PhD  
University of Florida  
(Presented By: James Collins, PhD)
- Poster# 228 POTENTIAL ABNORMALITIES IN IRON PROCESSING BY MUCOLIPIDOSIS TYPE IV PATIENT FIBROBLASTS**  
Chevaun Morrison, BS<sup>1</sup>, Eric N. Sauble, MS Chemistry<sup>1</sup>, Annie Nguyen, undergraduate<sup>1</sup>, Maria C Linder, PhD<sup>1</sup> and Gideon Bach, MD<sup>2</sup>  
<sup>1</sup>California State University, Fullerton; <sup>2</sup>Hadassah Medical School, Jerusalem  
(Presented By: Chevaun Morrison, BS)
- Poster# 229 WITHDRAWN**  
**ISOTHERMAL TITRATION CALORIMETRY OF HUMAN SERUM TRANSFERRIN INTERACTION WITH THE SOLUBLE PORTION OF THE RECEPTOR**  
Banu Kandemir, undergraduate<sup>1</sup>, Shaina Byrne, PhD student<sup>2</sup>, Anne Mason, PhD<sup>2</sup>, N. Dennis Chasteen, PhD<sup>3</sup> and Fadi Bou-Abdallah, PhD<sup>1</sup>  
<sup>1</sup>State University of New York at Potsdam, NY, USA; <sup>2</sup>University of Vermont, VT, USA; <sup>3</sup>University of New Hampshire, NH, USA
- Poster# 230 "IN SILICO" MAPPING OF LIVER IRON LEVELS IN INBRED MICE**  
Stela Masle, Seung-Min Lee and Chris Vulpe  
UC Berkeley  
(Presented By: Stela Masle)
- Poster# 231 A HIGH PREVALENCE OF SUB-CLINICAL IRON DEFICIENCY IN BLOOD DONORS THAT PASSED THE SCREENING TEST FOR HEMOGLOBIN**  
Mireille Baart, MSc, Carine Doggen, PhD, Wim de Kort, PhD and Paulus van Noord, PhD  
Sanquin Blood Bank  
(Presented By: Mireille Baart, MSc)

- Poster# 232**     **ROLE OF IRON REPLACEMENT THERAPY IN THE ROUTINE MANAGEMENT OF BLOOD DONORS**  
Barbara Bryant, MD<sup>1</sup>, Yu Ying Yau, RN<sup>2</sup>, Sarah Arceo, RN<sup>2</sup>, Julie Hopkins, RN<sup>2</sup> and Susan Leitman, MD<sup>2</sup>  
<sup>1</sup>University of Texas Medical Branch; <sup>2</sup>National Institutes of Health  
(Presented By: Barbara Bryant, MD)
- Poster# 233**     **VALIDATING A SELF-REPORTED PROTOCOL FOR MENSTRUAL BLOOD LOSS IN PATIENTS WITH IRON DEFICIENCY ANAEMIA**  
Peter Nielsen, Thomas Jansen, MD, Rosemarie Kongi and Roland Fischer, PhD  
University Hospital, Hamburg  
(Presented By: Peter Nielsen)
- Poster# 234**     **PREVALENCE AND TRANSFORMATION'S PROBABILITY OF IRON DEPLETION TO ANEMIA IN CHILDREN**  
Elena Morshchakova, MD, Valeriy Demikhov, MD, Nataliya Inyakova, Oksana Isakova and Nadezhda Kravtsova  
Russian Federal Research Center for Pediatric Hematology  
(Presented By: Valeriy Demikhov, MD)
- Poster# 235**     **HFE-RELATED HEMOCHROMATOSIS PHENOTYPIC SCREENING IN 53119 SUBJECTS: THE BRITTANY EXPERIENCE**  
Hervé Goarin, MD<sup>2</sup>, Jeff Morcet<sup>3</sup>, Pascale Gérault<sup>4</sup>, Yves Trégouët<sup>4</sup>, Michèle Bourrien<sup>4</sup>, Véronique David<sup>5</sup>, Yves Deugnier, MD<sup>6</sup>, Anne-Marie Jouanolle<sup>5</sup>, Hervé Seignard, MD<sup>4</sup> and Pierre Brissot, MD<sup>1</sup>  
<sup>1</sup>Liver Disease Unit, Inserm U-522, University Hospital Pontchaillou, Rennes, France; <sup>2</sup>Mutualité Sociale Agricole, Inserm CIC 203, Laboratory of Molecular Genetics, Liver Disease Unit, Inserm U-522, Pontchaillou University Hospital, Rennes, France; <sup>3</sup>Inserm CIC 203, Rennes, France; <sup>4</sup>Mutualité Sociale Agricole, Rennes, France; <sup>5</sup>Laboratory of Molecular Genetics, University Hospital Pontchaillou, Rennes, France; <sup>6</sup>Inserm CIC 203, Liver Disease Unit, University Hospital Pontchaillou, Rennes, France  
(Presented By: Pierre Brissot, MD)
- Poster# 236**     **CLINICAL EXPRESSION OF HFE-ASSOCIATED HAEMOCHROMATOSIS IN SUBJECTS UNDER 40 YEARS OF AGE**  
Jeannette Dixon, BA, MPH, Elizabeth Watt, BComm, MD, Grant Ramm, BSc, PhD, Nathan Subramaniam, BSc, PhD, Lawrie Powell, MD, PhD and Greg Anderson, BSc, MSc, PhD  
Queensland Institute of Medical Research  
(Presented By: Jeannette Dixon, BA)
- Poster# 237**     **SCREENING FOR IRON OVERLOAD: LESSONS FROM THE HEIRS STUDY**  
Paul Adams, MD<sup>1</sup>, James Barton, MD<sup>2</sup>, Gordon McLaren, MD<sup>3</sup>, Ronald Acton, PhD<sup>4</sup>, Mark Speechley, PhD<sup>5</sup>, Christine McLaren, PhD<sup>6</sup>, David Reboussin, PhD<sup>7</sup>, Cathie Leiendecker-Foster, MS<sup>8</sup>, Beverly Snively, PhD<sup>7</sup>, Emily Harris, PhD<sup>9</sup>, Tom Vogt, MD<sup>10</sup>, Phyllis Sholinsky, MSPH<sup>11</sup>, Elizabeth Thomson, DNSc<sup>12</sup>, Fitzroy Dawkins, MD<sup>13</sup>, Victor Gordeuk, MD<sup>13</sup> and John Eckfeldt, MD, PhD<sup>8</sup>  
<sup>1</sup>University Hospital; <sup>2</sup>Southern Iron Disorders Center, Birmingham, AL; <sup>3</sup>VA Long Beach Healthcare System, Irvine, CA; <sup>4</sup>Dept. of Microbiology, Birmingham, AL; <sup>5</sup>Dept. of Epidemiology, University of Western Ontario; <sup>6</sup>Dept. of Epidemiology, UCI, Irvine, CA; <sup>7</sup>Division of Public Health Sciences, Wake Forest University, Winston-Salem, NC; <sup>8</sup>Department of Laboratory Medicine, University of Minnesota, Minneapolis, MN; <sup>9</sup>National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD; <sup>10</sup>Kaiser Permanente Center for Health Research, Honolulu, HI; <sup>11</sup>Dept of Epidemiology, NHLBI, NIH, Bethesda, MD; <sup>12</sup>National Genomics Institute, NIH, Bethesda, MD; <sup>13</sup>Dept. of Hematology, Howard University, Washington, DC  
(Presented By: Paul Adams)
- Poster# 238**     **HFE-C282Y HOMOZYGOTES WITH ELEVATED SF LESS THAN 1000 µG/L ARE NOT AT INCREASED RISK OF HAEMOCHROMATOSIS-ASSOCIATED DISEASE FEATURES**  
K.J. Allen<sup>1,2,3</sup>, L.C. Gurrin, N.A. Bertalli, N.J. Osborne, C.C. Constantine, M.B. Delatycki, A.E. Nisselle, A.J. Nicoll, D.M. Gertig, C.E. McLaren, G.G. Giles, D.R. English, J.L. Hopper, G.J. Anderson, J.K. Olynyk and L.W. Powell  
<sup>1</sup>Murdoch Childrens Research Institute; <sup>2</sup>Dept of Paediatrics The University of Melbourne; <sup>3</sup>Dept of Gastroenterology Royal Children's Hospital, Australia  
(Presented By: K.J. Allen)
- Poster# 239**     **NOMOGRAM TO DETECT THE RISK FOR IRON OVERLOAD-ATTRIBUTED DISEASE IN SIBLINGS OF PROBANDS WITH HFE-RELATED SYMPTOMATIC HEMOCHROMATOSIS: RESULTS OF THE HEMOCHROMATOSIS FAMILY STUDY**  
Esther Jacobs, MD, PhD<sup>2</sup>, Jan Hendriks, Herman Kreeftenberg, Richard de Vries, Joannes Marx, Cees van Deursen, Anton Stalenhoef, Andre Verbeek and Dorine Swinkels, MD, PhD<sup>1</sup>  
<sup>1</sup>Radboud Department of Clinical Chemistry 441, University Nijmegen Medical Centre; <sup>2</sup>Department of Clinical Chemistry, Radboud University Nijmegen Medical Centre, Nijmegen, the Netherlands  
(Presented By: Dorine Swinkels, MD, PhD)
- Poster# 240**     **HFE COMPOUND HETEROZYGOTES ARE AT LOW RISK OF HEMOCHROMATOSIS-RELATED MORBIDITY**  
L.C. Gurrin, N.A. Bertalli, G.W. Dalton, N.J. Osborne, C.C. Constantine, C.E. McLaren, D.R. English, D.M. Gertig, M.B. Delatycki, A.J. Nicoll, M.C. Southey, J.L. Hopper, G.G. Giles, G.J. Anderson, J.K. Olynyk, L.W. Powell and K.J. Allen  
Centre for MEGA Epidemiology, The University of Melbourne. Australia  
(Presented By: L.C. Gurrin)
- Poster# 241**     **WITHDRAWN**  
**JAPANESE PATIENTS WITH HEMOJUVELIN-HEMOCHROMATOSIS WHO SURVIVED OVER 50 YEARS**  
Hisao Hayashi, MD<sup>1</sup>, Yasuaki Tatsumi, PhD<sup>2</sup>, Ai Hattori, BS<sup>2</sup>, Motoyoshi Yano, MD<sup>3</sup>, Ryuichi Kidokoro, MD<sup>4</sup>, Shinya Wakusawa, PhD<sup>5</sup>, Kazuhiko Hayashi, MD<sup>5</sup>, Yoshiaki Katano, MD<sup>5</sup> and Hidemi Goto, MD<sup>5</sup>  
<sup>1</sup>Aichi Gakuin University; <sup>2</sup>Aichi Gakuin University School of Pharmacy; <sup>3</sup>Yokkaichi City Hospital; <sup>4</sup>Kidokoro Clinic; <sup>5</sup>Nagoya University School of Medicine  
(Presented By: Hisao Hayashi, MD)

- Poster# 242 ADRENERGIC OVERDRIVE IN IRON OVERLOADED PATIENTS WITH HEMOCHROMATOSIS**  
Raffaella Mariani, MD<sup>1</sup>, Alberto Piperno, Paola Trombini<sup>2</sup>, Valentina Paolini, Matteo Pozzi, Gino Seravalle<sup>3</sup>, Fosca Quarti-Treviso, Guido Grassi and Giuseppe Mancía  
<sup>1</sup>University of Milano-Bicocca; <sup>2</sup>Department of Clinical Medicine, San Gerardo Hospital, Monza, Italy; <sup>3</sup>Istituto Auxologico Italiano, Milano, Italy  
(Presented By: Paola Trombini)
- Poster# 243 EXTRINSIC FACTORS INFLUENCING THE EXPRESSIVITY OF THE HFE VARIANT C282Y, H63D, S65C PHENOTYPES IN DANISH MEN AGED 30-53 YEARS**  
Palle Pedersen, PhD<sup>2</sup> and Nils Milman, MD<sup>1</sup>  
<sup>1</sup>Næstved Hospital, Department of Clinical Biochemistry; <sup>2</sup>Department of Clinical Biochemistry, Næstved Hospital, Næstved, Denmark  
(Presented By: Nils Milman, MD)
- Poster# 244 DOES HLA-TYPE OR T-LYMPHOCYTE SUBSETS HAVE ANY RELEVANCE FOR PLANNING THE FOLLOWUP OF PERSONS WITH SCREENING-DETECTED HEMOCHROMATOSIS? PRELIMINARY DATA FROM NORTH TRØNDELAG COUNTY, NORWAY**  
Ketil Thorstensen<sup>1</sup>, Wenche Irgens<sup>1</sup>, Arne Åsberg<sup>1</sup>, Berit Borch-Johnsen<sup>2</sup>, Torolf Moen<sup>3</sup> and Kristian Hveem<sup>4</sup>  
<sup>1</sup>Dept. of Medical Biochemistry, St. Olav Hospital, Trondheim, Norway.; <sup>2</sup>Inst. of Basic Medical Sciences, Department of Nutrition, University of Oslo, Norway.; <sup>3</sup>Dept. of Immunology and Transfusion Medicine, St. Olav Hospital, Trondheim, Norway.; <sup>4</sup>Medical Department, Levanger Hospital, Levanger, Norway  
(Presented By: Ketil Thorstensen)
- Poster# 245 SELDI-TOF MS DETECTION OF URINARY HEPICIDIN**  
Sandro Altamura, PhD, Judith Kiss, Claudia Blattmann, Wolfgang Gilles and Martina Muckenthaler  
MMPU – Molecular Medicine Partnership Unit  
(Presented By: Sandro Altamura, PhD)
- Poster# 246 PHENOTYPIC PENETRANCE OF THE HFE GENE C282Y, H63D AND S65C VARIANTS IN DANISH MEN AGED 30-53 YEARS**  
Nils Milman, MD and Palle Pedersen, PhD  
Næstved Hospital, Næstved, Denmark  
(Presented By: Nils Milman, MD)
- Poster# 247 DELINEATING THE EXPERIENCES OF HEREDITARY HEMOCHROMATOSIS PATIENTS ALONG THE PATIENT PATHWAY: AN INTERNATIONAL QUANTITATIVE SURVEY OF 210 PATIENTS**  
Pierre Brissot, MD<sup>1</sup>, Vivian Wu Jin<sup>2</sup>, Simon Ball<sup>3</sup> and Helena Cannon<sup>3</sup>  
<sup>1</sup>Liver Disease Unit Inserm U-522, University Hospital Pontchaillou, Rennes, France; <sup>2</sup>Novartis Pharmaceuticals Corporation, New Jersey, USA; <sup>3</sup>Adelphi International Research, Bollington, UK  
(Presented By: Pierre Brissot, MD)
- Poster# 248 A PORTUGUESE PATIENT HOMOZYGOUS FOR THE HAMP-25G→A MUTATION-30 YEARS FOLLOW UP**  
Rita Fleming, MD  
Hospital Santa Maria  
(Presented By: Rita Fleming, MD)
- Poster# 249 EVALUATION OF PATIENT SATISFACTION WITH PHLEBOTOMY FOR THE TREATMENT OF HEREDITARY HEMOCHROMATOSIS: AN INTERNATIONAL QUANTITATIVE SURVEY OF 210 PATIENTS**  
Pierre Brissot, MD<sup>1</sup>, Jean Francis Baladi<sup>2</sup>, Simon Ball<sup>3</sup> and Helena Cannon<sup>3</sup>  
<sup>1</sup>Liver Disease Unit Inserm U-522, University Hospital Pontchaillou, Rennes, France; <sup>2</sup>Novartis Pharmaceuticals Corporation, New Jersey, USA; <sup>3</sup>Adelphi International Research, Bollington, UK  
(Presented By: Pierre Brissot, MD)
- Poster# 250 INFECTIOUS DISEASES IN DIAGNOSED PATIENTS OF GENETIC HEMOCHROMATOSIS**  
Alejandro Del Castillo, MD, Susana Gordo, Teresa Aldámiz, Fernando De la Calle and Luis A. Álvarez-Sala  
Hospital G. U. Gregorio Marañón  
(Presented By: Alejandro Del Castillo, MD)
- Poster# 251 ARTERIAL HYPERTENSION IN PATIENTS WITH GENETIC HEMOCHROMATOSIS**  
Alejandro Del Castillo, MD, Susana Gordo, Teresa Aldámiz, Fernando De la Calle and Luis A. Álvarez-Sala  
Hospital G. U. Gregorio Marañón  
(Presented By: Alejandro Del Castillo, MD)
- Poster# 252 SNPS ASSOCIATED WITH IRON INDICES IN A CANDIDATE GENE STUDY OF HEREDITARY HAEMOCHROMATOSIS**  
C.C. Constantine, PhD<sup>2</sup>, C.D. Vulpe, G.J. Anderson, C.E. McLaren, M. Bahlo, H.L. Yeap, K.J. Allen, N.J. Osborne, N.A. Bertalli, D.M. Gertig, M.B. Delatycki, J.K. Olynyk, K.B. Beckman, V. Chen, P. Matak, A.T. McKie, L.C. Gurrin<sup>1</sup> and HealthIron Investigators  
<sup>1</sup>Centre for MEGA Epidemiology, The University of Melbourne; <sup>2</sup>Centre for MEGA Epidemiology, School of Population Health, University of Melbourne  
(Presented By: L.C. Gurrin)
- Poster# 253 CELLULAR CHARACTERISATION OF MAMMALIAN MONIA: A PUTATIVE TRAFFICKING PROTEIN AND MODIFIER OF THE HAEMOCHROMATOSIS PHENOTYPE**  
Daniel Wallace, PhD, Lesa Summerville, Nick Barker and Nathan Subramaniam  
Queensland Institute of Medical Research  
(Presented By: Daniel Wallace, PhD)

- Poster# 254 HFE, SLC40A1, HAMP, HJV, TFR2, AND FTL MUTATIONS DETECTED BY DENATURING HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY AFTER IRON PHENOTYPING AND HFE C282Y AND H63D GENOTYPING IN 785 HEIRS STUDY PARTICIPANTS**  
James Barton, MD<sup>1</sup>, Susie DelRio-LaFreniere, MS<sup>2</sup>, Catherine Leiendecker-Foster, MS<sup>2</sup>, Honggui Li, MS<sup>2</sup>, Ronald Acton, PhD<sup>3</sup>, Richard Press, MD, PhD<sup>4</sup> and John Eckfeldt, MD, PhD<sup>2</sup>  
<sup>1</sup>Southern Iron Disorders Center; <sup>2</sup>University of Minnesota, Minneapolis, MN; <sup>3</sup>University of Alabama at Birmingham, Birmingham, AL; <sup>4</sup>Oregon Health & Science University, Portland, OR  
(Presented By: James Barton, MD)
- Poster# 255 MUTATION ANALYSIS OF SEVEN GENES INVOLVED IN IRON METABOLISM IN A MENNONITE POPULATION**  
Samuel Krikler, MBChB<sup>1</sup>, Chris Whittington, MBChB<sup>1</sup>, Michelle-Angelique Hallendorff, MSc<sup>2</sup>, Natalie Strickland, MSc<sup>2</sup>, Veronique Human, MSc<sup>2</sup>, Nathaniel McGregor, HonsBSc<sup>2</sup>, Jessica Vervalle, HonsBSc<sup>2</sup> and Monique Zaahl, PhD<sup>2</sup>  
<sup>1</sup>University of British Columbia; <sup>2</sup>Stellenbosch University  
(Presented By: Samuel Krikler, MBChB)
- Poster# 256 SYNTHESIZING THE EVIDENCE FOR THE ASSOCIATION BETWEEN THE G277S SUBSTITUTION IN THE TRANSFERRIN GENE AND IRON DEFICIENCY BY COMBINING DATA FROM POPULATION STUDIES**  
L.C. Gurrin, N.A. Bertalli and C.C. Constantine  
Centre for MEGA Epidemiology, The University of Melbourne  
(Presented By: L.C. Gurrin)
- Poster# 257 CHANGES OF THE EXPRESSIONS OF THE GENES INVOLVED IN IRON METABOLISM BY THE IRON CHELATION THERAPY AND PHLEBOTOMY IN THE IRON OVERLOADED MOUSE MODEL**  
Takaaki Hosoki, MD, PhD, Katsuya Ikuta, MD, PhD, Naoka Okamura, MD, Motohiro Shindo, MD, PhD, Kazuya Sato, MD, PhD, Takaaki Ohtake, MD, PhD, Katsunori Sasaki, PhD, Yoshihiro Torimoto, MD, PhD and Yutaka Kohgo, MD, PhD  
Asahikawa Medical College  
(Presented By: Takaaki Hosoki, MD, PhD)
- Poster# 258 COMPARATIVE ABILITY OF IRON CHELATORS TO REMOVE IRON FROM ALBUMIN-IRON (III) COMPLEXES**  
Jay Parshotam, BSc (Hons)<sup>1</sup>, André Silva<sup>2</sup>, Xiao Kong<sup>3</sup> and Robert Hider<sup>4</sup>  
<sup>1</sup>KCL/ PhD student; <sup>2</sup>KCL/PhD student; <sup>3</sup>KCL/PhD; <sup>4</sup>KCL/Professor  
(Presented By: Jay Parshotam, BSc (Hons))
- Poster# 259 H-FERRITIN SIRNA DELIVERED BY CATIONIC LIPOSOMES INCREASES GLIOMA CELL SENSITIVITY TO RADIATION AND CHEMOTHERAPEUTIC AGENTS**  
Xiaoli Liu, MS, A.B. Madhankumar, PhD, Jonas Sheehan, MD, Becky Slagle-Webb, BSc and James Connor, PhD  
Penn State Hershey Medical center  
(Presented By: James Connor, PhD)
- Poster# 260 A COMPARATIVE STUDY OF THE ANTIPROLIFERATIVE ACTIVITY OF IRON CHELATORS PIH, SIH AND THEIR PHOTOLABILE CAGED-DERIVATIVES IN SKIN CELLS**  
Charareh Pourzand, PhD, Asma Aroun, PhD<sup>2</sup> and Olivier Reelfs, PhD  
Department of Pharmacy and Pharmacology, Bath University, Bath, UK  
(Presented By: Charareh Pourzand, PhD)
- Poster# 261 L-TYPE CALCIUM CHANNEL BLOCKER, VERAPAMIL, IMPROVES SURVIVAL AND REDUCES IRON LOADING IN HYPOTRANSFERRINAEMIC MICE**  
Patarabutr Masaratana, MD, Abas Laftah, PhD, Gladys Oluyemisi Latunde-Dada, PhD, Robert Simpson, PhD and Andrew McKie, PhD  
King's College London  
(Presented By: Patarabutr Masaratana, MD)
- Poster# 262 IRON DEPLETION THERAPY FOR PATIENTS WITH METABOLIC SYNDROME AND NON-ALCOHOLIC FATTY LIVER DISEASE: PRELIMINARY FINDINGS**  
James Nelson, PhD<sup>1</sup>, Kristina Utzschneider, MD<sup>2</sup>, Bryan Maliken, BS<sup>1</sup>, Jacob Alexander, MD<sup>2</sup> and Kris Kowdley, MD<sup>3</sup>  
<sup>1</sup>Benaroya Research Institute; <sup>2</sup>University of Washington Medical Center; <sup>3</sup>Benaroya Research Institute and Virginia Mason Medical Center  
(Presented By: James Nelson, PhD)
- Poster# 263 HIGH THROUGH-PUT SCREENING OF CHEMICALS THAT STIMULATE IRON UPTAKE – A NOVEL APPROACH TO DISCOVERY OF ANTI-CANCER DRUGS**  
Zhen Li, PhD, Hiroki Tanaka, PhD, Hong Yin, PhD, Kwo-Yih Yeh, PhD, Mary Yeh, PhD and Jonathan Glass, MD  
Feist-Weiller Cancer Center, LSUHSC  
(Presented By: Jonathan Glass, MD)
- Poster# 264 FRIEDREICH'S ATAXIA: PROTEIN TRANSDUCTION OF TAT-CONJUGATED FRATAXIN MAY BE A NOVEL THERAPY**  
Hannes Steinkellner, Barbara Scheiber-Mojdehkar, Dr, Franco Laccone, Dr, Hans Goldenberg, Dr and Brigitte Sturm, Dr  
Medical University of Vienna  
(Presented By: Hannes Steinkellner)
- Poster# 265 POTENT IRON CHELATORS AS ANTI-TUMOR AGENTS: THE NOVEL 2-ACETILPYRIDINE THIOSEMICARBAZONE SERIES**  
Danuta Kalinowski, BSc, PhD, V. Richardson, P.C. Sharpe, D.B. Lovejoy, M. Islam, P.V. Bernhardt and D.R. Richardson  
University of Sydney  
(Presented By: Danuta Kalinowski, BSc, PhD)

- Poster# 266 FRATAXIN-EXPRESSION IS INCREASED BY RECOMBINANT HUMAN ERYTHROPOIETIN INDEPENDENT OF EXPRESSION OF THE CLASSICAL ERYTHROPOIETIN RECEPTOR**  
Melissa Helminger<sup>1</sup>, Hannes Steinkellner, MSc<sup>2</sup>, Hans Goldenberg, PhD<sup>2</sup>, Brigitte Nina Sturm, PhD<sup>2</sup> and Barbara Scheiber-Mojdehkar, PhD<sup>2</sup>  
<sup>1</sup>Medical University of Vienna; <sup>2</sup>Department of Medical Chemistry, Medical University of Vienna, Austria  
(Presented By: Melissa Helminger)
- Poster# 267 MOLECULAR IMPACT OF HUMAN DIVALENT METAL-ION TRANSPORTER-1 (DMT1) MUTATIONS ASSOCIATED WITH DISEASE PHENOTYPES**  
Ali Shawki, Anthony C. Illing and Bryan Mackenzie  
University of Cincinnati College of Medicine  
(Presented By: Ali Shawki)
- Poster# 268 THE FIRST CELLULAR MODELS FOR FRIEDREICH ATAXIA BASED ON FRATAXIN MISSENSE MUTATIONS THAT REPRODUCE SPONTANEOUSLY FE-S CLUSTERS DEFECT AND INTRAMITOCHONDRIAL IRON DEPOSITS**  
Stéphane Schmucker<sup>1</sup>, Nadège Carelle-Calmels, PhD, Marie Wattenhofer-Donzé, PhD, Nadège Vaucamps, technician, Laurence Reutenauer, Technician, Nadia Messaddeq, Engineer, Koenig Michel, Professor and Héléne Puccio, PhD<sup>2</sup>  
<sup>1</sup>IGBMC; <sup>2</sup>IGBMC Illkirch  
(Presented By: Stéphane Schmucker)
- Poster# 269 RETROMER IS REQUIRED FOR PROPER ENDOSOMAL SORTING OF MAMMALIAN IRON TRANSPORTER, DMT1**  
Mitsuaki Tabuchi, PhD, Izumi Yanatori, Bachelor and Fumio Kishi, MD, PhD  
Kawasaki Medical School  
(Presented By: Fumio Kishi, MD, PhD)
- Poster# 270 EVENTS IN THE ENDOSOME LINK HEME AND IRON HOMEOSTASIS WITH THAT OF COPPER IN THE HEMOPEXIN SYSTEM**  
Ann Smith, BSc, PhD, Kimberley Rish, MS, Rachel Lovelace, BS, Jennifer Hackney, PhD and Rachel Helston, PhD  
University of Missouri-KC  
(Presented By: Ann Smith, BSc, PhD)
- Poster# 271 MECHANISMS UNDERLYING HEPATIC IRON ACCUMULATION IN A DIETARY EXPERIMENTAL MODEL OF NAFLD**  
Paola Dongiovanni, PhD, S. Gatti, R Rametta, A.L. Fracanzani, S. Fargion and L. Valenti  
Department of Internal Medicine, University of Milan  
(Presented By: Paola Dongiovanni, PhD)
- Poster# 272 HEPATIC IRON DEPOSITION IN RETICULOENDOTHELIAL CELLS BUT NOT HEPATOCYTES IS ASSOCIATED WITH MORE SEVERE NASH: RESULTS FROM THE NASH CLINICAL RESEARCH NETWORK**  
James Nelson, PhD<sup>1</sup>, Laura Wilson, MS<sup>2</sup>, Elizabeth Brunt, MD<sup>3</sup>, Matthew Yeh, MD, PhD<sup>4</sup>, David Kleiner, MD, PhD<sup>5</sup>, Aynur Unalp-Arida, MD, PhD<sup>2</sup> and Kris Kowdley, MD<sup>6</sup>  
<sup>1</sup>Benaroya Research Institute; <sup>2</sup>Johns Hopkins University; <sup>3</sup>Washington University, Department of Pathology; <sup>4</sup>University of Washington, Department of Pathology; <sup>5</sup>National Cancer Institute; <sup>6</sup>Benaroya Research Institute and Virginia Mason Medical Center  
(Presented By: James Nelson, PhD)
- Poster# 273 OSYSL15 IS AN IRON-REGULATED IRON (III)-PHYTOSIDEROPHORE TRANSPORTER AND IS ESSENTIAL FOR IRON UPTAKE IN RICE PLANTS**  
N.K. Nishizawa, PhD, T. Kobayashi, T. Nozoye, M. Takahashi, Y. Kakei, H. Nakanishi, S. Mori  
University of Tokyo  
(Presented By: Naoko Nishizawa, PhD)
- Poster# 274 PORPHYRIN DISTORTION AND METAL ION SELECTIVITY IN FERROCHELATASE**  
Neil McIntyre, PhD<sup>2</sup>, Ricardo Franco, PhD<sup>3</sup>, John Shelnett, PhD<sup>4</sup> and Gloria Ferreira<sup>1</sup>  
<sup>1</sup>Univ South Florida; <sup>2</sup>University of South Florida; <sup>3</sup>Universidade Nova de Lisboa; <sup>4</sup>Sandia National Laboratories  
(Presented By: Gloria Ferreira)
- Poster# 275 SERUM FERRITIN AND HEPICIDIN LEVELS PREDICT VASCULAR DAMAGE IN PATIENTS WITH NONALCOHOLIC FATTY LIVER DISEASE**  
Luca Valenti, MD, Dorine W. Swinkels, Larry Burdick, Harold Tjalsma, Cristina Bertelli, Erika Fatta, Daniela Bignamini, Paola Dongiovanni, Raffaella Rametta, Benedetta M. Motta, Silvia Fargion and Anna Ludovica Fracanzani  
University of Milano  
(Presented By: Luca Valenti, MD)
- Poster# 276 RECOMBINANT HUMAN ERYTHROPOIETIN DOPING IN AN EXPERIMENTAL MODEL OF CHRONIC AEROBIC EXERCISE TRAINING**  
Nuno Piloto, Biochem D<sup>2</sup>, Flávio Reis, PhD<sup>1</sup>, Helena M. Teixeira, PhD, Edite Teixeira de Lemos, PhD, Patrícia Garrido, MSci, Elísio Costa, MSci, José Sereno, Biochem D, Margarida Lourenço, MD, Carlos A. Tavares, MD, Carlos A. Ferrer Antunes, MD, Petronila Rocha Pereira, PhD, Luis Belo, PhD, Alice Santos Silva, PhD and Frederico Teixeira, PhD  
<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  
(Presented By: Flávio Reis, PhD)
- Poster# 277 IRON UPTAKE BY CHROMERA VELIA**  
Robert Sutak, Emmanuel Lesuisse and Jean-Michel Camadro  
Institut Jacques Monod  
(Presented By: Robert Sutak)

**Poster# 278** **SMALL MOLECULE INHIBITORS OF HYPOXIA INDUCIBLE FACTOR 2A (HIF2A) TRANSLATION LINK ITS 5'-UNTRANSLATED REGION (5'-UTR) IRON RESPONSIVE ELEMENT (IRE) TO IRP-1 MEDIATED OXYGEN SENSING**  
Michael Zimmer, PhD<sup>2</sup>, Christoher Neil, BSc<sup>2</sup> and Othon Iliopoulos, MD<sup>1</sup>  
<sup>1</sup>Massachusetts General Hospital Cancer Center; <sup>2</sup>Massachusetts General Hospital Cancer Center and Harvard Medical School  
(Presented By: Othon Iliopoulos, MD)