## BioIron 2023 - Draft Program

Time	Presentation title	Presenter
SUNDAY AUGUST 27		
8.00am-8.30am	Arrival and registration	
8.30am-4.00pm	Introductory Course	
6.50am-4.00pm	introductory course	
8.30am-10.30am	Introductory Course - Session 1 – Basic Principles	
8.30am-9.00am	The biochemistry of iron in cells	Caroline Philpott
9.00am-9.30am	Intestinal iron absorption	Jamie Collins
9.30am-10.00am	Regulation of cellular iron homeostasis	Esthi Meyron-Holtz
10.00am-10.30am	Mechanisms of systemic iron homeostasis	Martina
		Muckenthaler
10.30am-11.00am	Coffee break	
11.00am-1.00pm	Introductory Course - Session 2 - Iron insufficiency and iron excess	
11.00am-11.30am	Nutritional anaemia and its global impact	Sant-Rayn Pasricha
11.30am-12.00noon	Diagnosis and management of haemochromatosis	Edouard Bardou-
		Jacquet
12.00noon-12.30pm	Iron loading anaemias	Laura Silvestri
12.30pm-1.00pm	Diagnosing and treating iron disorders	Yelena Ginzburg
1.00pm-2.00pm	Lunch	
2.00pm-4.00pm	Introductory Course - Session 3 – Iron and Disease	
2.00pm-2.30pm	Iron and chronic liver disease	Darrell Crawford
2.30pm-3.00pm	Iron and neurodegeneration	Scott Ayton
3.00pm-3.30pm	Iron, ferroptosis and cancer	Shinya Toyokuni
3.30pm-4.00pm	Iron and infection/COVID	Hal Drakesmith
4.00pm-4.30pm	Coffee break and registration	
4.30pm-5.00pm	Opening and welcome ceremony	
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5.00pm-6.00pm	Keynote Lecture I: Lawrie Powell Oration	
5.00pm-6.00pm		
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6.00pm-6.30pm	Board buses for welcome reception	
6.30pm-9.30pm	Welcome Reception	
<b>MONDAY AUGUST 28</b>		
8.00am-9.00am	m-9.00am Meet the Experts I – Ferroptosis for beginners	
9.00am-10.30am	Plenary Session I: New discoveries, novel targets and therapies	
9.00am-9.30am	Plenary Lecture I – Title TBA	Rafael Rodriguez
9.30am-9.45am	Iron excess exacerbates and pharmacological iron restriction improves the pathophysiology of transfusion independent myelodysplastic syndromes	Francesca Vinchi
9.45am-10.00am	Germline Transferrin Receptor 2 deletion improves the bone phenotype in a murine model of chronic kidney disease	Antonella Nai
10.00am-10.15am	Identification of a new regulator of hepcidin and iron metabolism during the recovery from hemorrhage-induced anemia	Leon Kautz
10.15am-10.30am	BMP5 contributes to hepcidin regulation and systemic iron homeostasis	Xia Xiao
10.30am-11.00am	Coffee break	
11.00am-12.00noon	Keynote Lecture II	
11.00am-12.00noon	Ferroptosis: From basic mechanisms to therapeutic opportunities	Marcus Conrad
	Terroptosis From Sasie mediams to the apeatic opportunities	Wareas comaa
1.00pm-2.00pm	Lunch	
1.00pm-2.30pm	Concurrent Session I: Structure/function of iron proteins	
1.00pm-1.15pm	Osteoblast-selective Erfe deletion confirms cell-autonomous role of ERFE in the bone loss phenotype of global Erfe knockout	Yelena Ginzburg
	mice	
1.15pm-1.30pm	PPP1R1B is a new Iron Regulatory Protein target mRNA that controls cellular iron homeostasis	Mayka Sanchez Fernandez
1.30pm-1.45pm	Nuclear Iron Regulatory Protein 1: Where to go from here?	Kirst King-jones
1.45pm-2.00pm	FKBP12 partners in BMP-SMAD pathway and hepcidin modulation	
2.00pm-2.15pm	H-Ferritin is an inflammatory signalling molecule in liver disease	Laura Silvestri Michael Pearen
2.15pm-2.30pm	IRP1 deficiency triggers metabolic reprograming, increases insulin sensitivity and protects mice against high -fat diet-induced hyperglycemia	
1.00pm-2.30pm	Concurrent Session II: Iron in global health and infection	

1.00pm-1.15pm	What is the best way to take oral iron supplements?	Nicole Stoffel
1.15pm-1.30pm	Cell-autonomous osteoclast iron deficiency causes osteopenia	Tiago Carvalho
		Oliveira
1.30pm-1.45pm	Molecular mechanisms of hypophosphatemia after intravenous iron therapy	Sonja Astrid Wagner
1.45pm-2.00pm	Iron deficiency reduces risk of Plasmodium parasitaemia: clinical, pre-clinical and in vitro evidence	Danielle Clucas
2.00pm-2.15pm	Impaired iron homeostasis can modulate the course of uropathogenic E. coli (UPEC)- induced epididymo-orchitis in different directions.	Esther Meyron-Holtz
2.15pm-2.30pm	Impact of iron-folic acid on neonatal mortality risk of different types of vulnerable newborns in rural  Bangladesh: the Shonjibon Trial	
2.30pm-3.00pm	Coffee break	
3.00pm-4.30pm	Concurrent Session III: Iron and heme transport and regulation	
3.00pm-3.15pm	Apo- and holo-Tf differentially interact with hephaestin and ferroportin to regulate cellular iron release	Stephanie Baringer
3.15pm-3.30pm	Hepatic neogenin induction of hepcidin expression requires not only its hemojuvelin-binding domain but also all other domains of neogenin	An-sheng Zhang
3.30pm-3.45pm	PCBP1 and BolA2 in the nucleus: Fe-S trafficking meets genome maintenance	Caroline Philpott
3.45pm-4.00pm	Structural basis for ferritin-NCOA4 interactions	Gabriel Frank
4.00pm-4.15pm	Ablation of Na+/H+ exchanger-3 prevents tissue iron loading in the Hfe mouse model of hereditary hemochromatosis	Bryan Mackenzie
4.15pm-4.30pm	HIV-1 replication in humanized mice is inhibited by phenyl-1-pyridin-2yl-ethanone-based iron chelator PPYeT by modulating restriction factors	Namita Kumari
3.00pm-4.30pm	Concurrent Session IV: Iron and the CNS	
3.00pm-3.15pm	Hemochromatosis-related parkinsonism in an Hfe-/- xTfr2mut mouse model with brain iron elevation that increases with age	Dan Johnstone
3.15pm-3.30pm	Significant change in biometal distribution in brains of Alzheimer's Disease (TGSWDI) mice	Torben Moos
3.30pm-3.45pm	Neurodegeneration in aceruloplasminemia and carriers of heterozygous ceruloplasmin variants: Brain atrophy or iron toxicity?	Marlene Panzer
3.45pm-4.00pm	Complex mechanistic relationships of brain iron homeostasis, iron-rich 'ferriglia' and hemochromatosis with Alzheimer's amyloidosis and cerebrovascular amyloid angiopathy.	Liz Milward
4.00pm-4.15pm	H-ferritin and Tf-bound iron transport to the brain are selectively altered by age and sex during diet-induced iron deficiency	Kondaiah Palsa
4.15pm-4.30pm	Increased levels of soluble Aβ peptide species in a model of Alzheimer's amyloidosis with hemochromatosis-related brain iron elevation	Qiao-Xin Li
4.30pm-6.30pm	Poster Walk I	
TUESDAY AUGUST 2	29	

8.00am-9.30am	Plenary Session II: Ferroptosis		
8.00am-8.30am	am-8.30am Plenary Lecture II - Ferroptosis targeting in disease		
8.30am-8.45am	Inhibition of PKA/CREB1 pathway confers sensitivity to ferroptosis in non-small cell lung cancer	Guangyao Shan	
8.45am-9.00am	Catastrophic cell death in mice lacking PCBP1 and PCBP2 in intestinal epithelium	Caroline Philpott	
9.00am-9.15am	Ferroptosis promotes T cell activation-induced neurodegeneration in multiple sclerosis	Peng Lei	
9.15am-9.30am	Ferroptosis in heart disease	Junxia Min	
9.30am-10.00am	Coffee break		
10.00am-11.30am	Plenary Session III: Iron, immunity and infection		
10.00am-10.30am	Plenary Lecture III – Title TBA	Sarah Atkinson	
10.30am-10.45am	Iron control of regulatory T cells in steady state and diseases	Qian Wu	
10.45am-11.00am	Hepatocyte Toll-like receptors mediate the hepcidin inflammatory response to pathogens and pathogen-derived ligands	Oriana Marques	
11.00am-11.15am	Iron Regulatory Protein 1 plays a key role in the propagation of inflammation	Esther Meyron-Holtz	
11.15am-11.30am	Differential effects of monoferric transferrins on the murine response to inflammation	Nermi Parrow	
	Board buses for conference excursion		
11.30am-12.00noon	Board buses for conference excursion		
11.30am-12.00noon 12.00noon-6.00pm	Board buses for conference excursion  Conference excursion (included in registration); Jumping crocodiles and Pudakul Indigenous culture tour. Free afternoon if y	ou wish.	
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12.00noon-6.00pm  WEDNESDAY AUGUST	Conference excursion (included in registration); Jumping crocodiles and Pudakul Indigenous culture tour. Free afternoon if y	ou wish.	
12.00noon-6.00pm  WEDNESDAY AUGUST  7.30am-8.30am	Conference excursion (included in registration); Jumping crocodiles and Pudakul Indigenous culture tour. Free afternoon if y  Meet the Experts II - The future of iron research – unanswered questions and new directions	ou wish.  Hossein Ardehali	
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12.00noon-6.00pm  WEDNESDAY AUGUST  7.30am-8.30am  8.30am-10.00am  8.30am-9.00am  9.00am-9.15am  9.15am-9.30am  9.30am-9.45am  9.45am-10.00am	Conference excursion (included in registration); Jumping crocodiles and Pudakul Indigenous culture tour. Free afternoon if y  Meet the Experts II - The future of iron research – unanswered questions and new directions  Plenary Session IV: Pathogenic consequences of iron  Plenary Lecture IV – The role of iron in cardiovascular disease  The 3D Trial: Deferiprone to delay dementia  Conservative iron chelation for treating focal siderosis: from experimental models to clinical trials  An innovative non-hormonal strategy targeting iron to down-regulate estrogen-, progesterone-, androgen- and prolactin-receptors in breast cancer  Dopamine regulation by the iron-storage protein ferritin  Coffee break	Hossein Ardehali Scott Ayton Ioav Cabantchik Zaklina Kovacevic	

11.00am-11.15am	Ferroptosis-mitigating Glutathione peroxidase 4 (GPX4) is indispensable for the homeostasis and function of T cell dependent antibody response	
11.15am-11.30noon	Cinnamaldehyde ameliorates intracerebral hemorrhage induced brain injury by inhibiting ferroptosis and hematoma clearance	
11.30am-11.45noon	Full-length Amyloid Precursor Protein desensitises ferroptosis	Mohammed Jakaria
11.45am-12.00noon	· · · · · · · · · · · · · · · · · · ·	
10.30am-12.00noon	Concurrent Session VI: Iron loading anaemias	
10.30am-10.45am	Iron chelation improves ineffective erythropoiesis and iron overload in a mouse model of myelodysplastic syndrome	Yelena Ginzberg
10.45am-11.00am	The molecular pathophysiology of ineffective erythropoiesis at single cell resolution	Raymond Doty
11.00am-11.15am	Bone marrow sinusoidal endothelial cells show Fgf23 upregulation in murine Beta-Thalassemia and in response to direct administration of EPO	Karin Finberg
11.15am-11.30noon	Monoferric forms of transferrin show differences on parameters of ineffective erythropoiesis in Hbbth3/+ mice but not in conditional TFR2KO mice	Amaliris Guerra
11.30am-11.45noon	Dysregulation of placental and fetal iron homeostasis in a mouse model of β-Thalassemia pregnancy (HbbTh3/+ mice)	Jamie Collins
11.45am-12.00noon		Rafal Pawlinski
11.45am-12.00noon  12.00pm-1.00pm		North Tawillian
	hematopoiesis in sickle cell disease mice	North Tawillian
12.00pm-1.00pm	hematopoiesis in sickle cell disease mice  Lunch	North Tawillian
<i>12.00pm-1.00pm</i> 1.00pm-2.00pm	hematopoiesis in sickle cell disease mice  Lunch  IBIS Business meeting	Heinrich Lob
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12.00pm-1.00pm 1.00pm-2.00pm 2.00pm-3.30pm	hematopoiesis in sickle cell disease mice  Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism	Heinrich Lob
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1.00pm-1.00pm  1.00pm-2.00pm  2.00pm-3.30pm 2.00pm-2.15pm 2.15pm-2.30pm 2.30pm-2.45pm 2.45pm-3.00pm	Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism  Hemojuvelin mediated hepcidin induction requires both bone morphogenetic protein type I receptors ALK2 and ALK3  Iron chaperones PCBP1 and PCBP2 in macrophages control intracellular and systemic iron distribution  Heme biosynthesis and iron-sulfur cluster biogenesis: two main iron utilization pathways with multiple points of intersection	Heinrich Lob Andrea Steinbicker Olga Protchenko
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12.00pm-1.00pm  1.00pm-2.00pm  2.00pm-3.30pm 2.00pm-2.15pm 2.15pm-2.30pm 2.30pm-2.45pm 2.45pm-3.00pm 3.00pm-3.15pm 3.15pm-3.30pm	Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism  Hemojuvelin mediated hepcidin induction requires both bone morphogenetic protein type I receptors ALK2 and ALK3  Iron chaperones PCBP1 and PCBP2 in macrophages control intracellular and systemic iron distribution  Heme biosynthesis and iron-sulfur cluster biogenesis: two main iron utilization pathways with multiple points of intersection and co-dependence  NRF2-independent iron-triggered signaling via p38-ETS1 regulates LSEC Bmp6 mRNA expression	Heinrich Lob Andrea Steinbicker Olga Protchenko Nunziata Maio  Kararzyna Mleczko- Sanecka Martina
12.00pm-1.00pm  1.00pm-2.00pm  2.00pm-3.30pm 2.00pm-2.15pm 2.15pm-2.30pm 2.30pm-2.45pm 2.45pm-3.00pm  3.00pm-3.15pm  3.15pm-3.30pm	Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism  Hemojuvelin mediated hepcidin induction requires both bone morphogenetic protein type I receptors ALK2 and ALK3  Iron chaperones PCBP1 and PCBP2 in macrophages control intracellular and systemic iron distribution  Heme biosynthesis and iron-sulfur cluster biogenesis: two main iron utilization pathways with multiple points of intersection and co-dependence  NRF2-independent iron-triggered signaling via p38-ETS1 regulates LSEC Bmp6 mRNA expression  Super-paramagnetic iron oxide nanoparticles reprogram the tumor microenvironment and reduce lung cancer growth	Heinrich Lob Andrea Steinbicker Olga Protchenko Nunziata Maio  Kararzyna Mleczko- Sanecka Martina
12.00pm-1.00pm  1.00pm-2.00pm  2.00pm-3.30pm 2.00pm-2.15pm 2.15pm-2.30pm 2.30pm-2.45pm 2.45pm-3.00pm 3.00pm-3.15pm	Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism  Hemojuvelin mediated hepcidin induction requires both bone morphogenetic protein type I receptors ALK2 and ALK3  Iron chaperones PCBP1 and PCBP2 in macrophages control intracellular and systemic iron distribution  Heme biosynthesis and iron-sulfur cluster biogenesis: two main iron utilization pathways with multiple points of intersection and co-dependence  NRF2-independent iron-triggered signaling via p38-ETS1 regulates LSEC Bmp6 mRNA expression  Super-paramagnetic iron oxide nanoparticles reprogram the tumor microenvironment and reduce lung cancer growth  Concurrent Session VIII: Iron deficiency and nutrition	Heinrich Lob Andrea Steinbicker Olga Protchenko Nunziata Maio  Kararzyna Mleczko- Sanecka Martina Muckenthaler
12.00pm-1.00pm  1.00pm-2.00pm  2.00pm-3.30pm 2.00pm-2.15pm 2.15pm-2.30pm 2.30pm-2.45pm 2.45pm-3.00pm 3.00pm-3.15pm 3.15pm-3.30pm 2.00pm-3.30pm 2.00pm-2.15pm	hematopoiesis in sickle cell disease mice  Lunch  IBIS Business meeting  Concurrent Session VII: Cellular iron homeostasis  FADS1 is a potential connector of iron homeostasis with glucose metabolism  Hemojuvelin mediated hepcidin induction requires both bone morphogenetic protein type I receptors ALK2 and ALK3  Iron chaperones PCBP1 and PCBP2 in macrophages control intracellular and systemic iron distribution  Heme biosynthesis and iron-sulfur cluster biogenesis: two main iron utilization pathways with multiple points of intersection and co-dependence  NRF2-independent iron-triggered signaling via p38-ETS1 regulates LSEC Bmp6 mRNA expression  Super-paramagnetic iron oxide nanoparticles reprogram the tumor microenvironment and reduce lung cancer growth  Concurrent Session VIII: Iron deficiency and nutrition  Iron bioavailability from foods fortified with wheat aleurone	Heinrich Lob Andrea Steinbicker Olga Protchenko Nunziata Maio  Kararzyna Mleczko- Sanecka Martina Muckenthaler  Paul Sharp

3.00pm-3.15pm	Nutritional iron deficiency elicits profound rewiring of phagocytic and metabolic functions of red pulp macrophages		
3.15pm-3.30pm	Iron deficiency in augmenting HIFs and thromboses in disorders of hypoxia sensing and polycythemia vera. Is Phlebotomy a safe therapy?	Josef Prchal	
3.30pm-5.30pm	Poster Walk II		
6.30pm-11.00pm	Conference Dinner		
THURSDAY AUGUST 3	1		
8.30am-10.00am	Plenary Session V: Iron homeostasis		
8.30am-9.00am	Plenary Lecture V - How systemic and cell iron status affects macrophage plasticity in health and disease	Francesca Vinchi	
9.00am-9.15am	Characterization of the erythroferrone structural domains relevant for its iron-regulatory function	Tom Ganz	
9.15am-9.30am	Mitochondrial iron deficiency triggers neurodegeneration process in CoA defective cellular models	Sonia Levi	
9.30am-9.45am	Iron chaperones PCBP1 and PCBP2 are independent and overlapping in essential liver function	Olga Protchenko	
9.45am-10.00am	The role of hemoglobin H on erythropoiesis and iron metabolism and novel therapies for alpha-thalassemia	Stefano Rivella	
10.00am-10.30am	Coffee break		
10.30am-12.00noon	Concurrent Session IX: Iron, tissue injury and cancer		
10.30am-10.45am	Hepcidin and iron status are altered following ST-elevation myocardial infarction (STEMI)	Samira Lakhal- Littleton	
10.45am-11.00am	NCOA4-mediated ferritinophagy is a pancreatic cancer dependency via maintenance of iron bioavailability for iron–sulfur cluster proteins	Joseph Mancias	
11.00am-11.15am	Employing dual nature of iron to combat cancer via mitochondrial targeting of Deferasirox	Jaroslav Truksa	
11.15am-11.30noon	Iron aggravates pulmonary hypertension in a mouse model of hereditary hemochromatosis type 4	Sandro Altamura	
11.30am-11.45noon	Ferroportin depletes iron needed for cell cycle progression in head and neck squamous cell carcinoma	Ross Belvin	
11.45am-12.00noon	Lipidomic analysis of iron-loaded steatotic mice suggests differential modulation of peroxisomal lipid metabolism	Ross Graham	
10.30am-12.00noon	Concurrent Session X: New discoveries, novel targets and therapies		
10.30am-10.45am	Iron drives anabolic metabolism through active histone demethylation and mTORC1	Hossein Ardehali	
10.45am-11.00am	Endothelin-1 via ETA receptor activation promotes renal iron deposition in acute and chronic iron overload murine models	Malgorzata Kasztan	
11.00am-11.15am	Liver sinusoidal endothelial cells (LSECs) constitute a major route for hemoglobin clearance		
11.15am-11.30noon	Targeting conditioning-elicited non-transferrin-bound iron by TMPRSS6 silencing improves bone marrow transplant outcome	Francesca Vinchi	
11.15am-11.30noon 11.30am-11.45noon	Targeting conditioning-elicited non-transferrin-bound iron by TMPRSS6 silencing improves bone marrow transplant outcome A combined reduction of mitochondrial elevated labile iron and ROS affords restoration of functions affected by NAF-1- suppression in pancreatic cells	Francesca Vinchi Ioav Cabantchik	

12.00pm-1.00pm	Lunch	
1.00pm-2.30pm	Concurrent Session XI: Haemochromatosis	
1.00pm-1.15pm	Opm-1.15pm Clinical Characteristics of HFE C282Y/H63D compound heterozygotes identified in a specialty practice: Key differences from HFE C282Y homozygotes	
1.15pm-1.30pm	Extrahepatic iron loading and disease complications in HFE haemochromatosis	John Olynyk
1.30pm-1.45pm	Predicting hepatocellular carcinoma risk in patients with HFE hemochromatosis and severe fibrosis at diagnosis	
1.45pm-2.00pm	Relationships of serum hepcidin and erythroferrone to serum ferritin concentration in HEIRS study p.C282Y homozygotes and control subjects	
2.00pm-2.15pm	The novel classification of Hemochromatosis one year after	Domenico Girelli
2.15pm-2.30pm	Haemochromatosis HFE genotypes and clinical penetrance to disease: lessons from the UK Biobank	Janice Atkins
1.00pm-2.30pm	Concurrent Session XII: Systemic iron homeostasis	<u> </u>
1.00pm-1.15pm	A role for erythroferrone in the gastro-intestinal tract?	Leon Kautz
1.15pm-1.30pm	Ferroportin participates in liver endothelial cell iron sensing by regulating intracellular iron content and BMP6 expression	Allison Fisher
1.30pm-1.45pm	Single-cell transcriptomics reveals hepatic iron overload causes lean non-alcoholic fatty liver disease by suppressing PPARa signaling pathway	
1.45pm-2.00pm	Monoferric transferrins differentially influence the relationship between BMP6 and hepcidin expression in mice	Nermi Parrow
2.00pm-2.15pm	Tmprss6 siRNA treatment in mice stops hepcidin reduction across pregnancy	
2.15pm-2.30pm		
2.30pm-3.00pm	Coffee break	
3.00pm-4.00pm	Meet the Experts Session III - Haemochromatosis	
3.00pm-4.00pm	Concurrent Session XIII – Late-breaking Abstracts	
3.00pm-3.15pm	Hemochromatosis and colon cancer: Repurposing of a drug to induce ferroptosis as a novel therapy	Vadivel Ganapathy
3.15pm-3.30pm	African-specific genetic loci determine iron status in African children	John Muriuki
3.30pm-3.45pm	Hepcidin and erythroferrone levels across human pregnancy, and the effect of IV iron infusion – A REVAMP substudy	Katherine Fielding
3.45pm-4.00pm	Inflammation-driven NFkB signaling represses the iron exporter Ferroportin via HDAC3	
4.00pm-5.00pm	Keynote Lecture III: Incoming President's Address and Closing remarks	
4.00pm-5.00pm	Hepcidin: a 20-year journey from discovery to therapy	Elizabeta Nemeth