

8th Congress of the International Biolron Society

EMBL CONFERENCE



We have moved our website to embl.org/events. The content below is no longer being updated.

EMBL Courses and Conferences during the Coronavirus pandemic

With the onsite programme paused, many of our events are now being offered in virtual formats.

Registration is open as usual for many events, with back-up plans in place to move further courses and conferences online as necessary. Registration fees for any events affected by the COVID-19 disruption are fully refundable.

More information for participants of events at EMBL Heidelberg can be found here.

Programme

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Day 1 - Sunday 5 May 2019 (Educational Day, Keynote Lecture and Welcome Reception)

Time Speaker Location

Introductory Course: Iron Essentials for Clinicians and Scientists Coordinated by Jodie Babitt, Hal Drakesmith and loav Cabantchik

Time	Speaker	Location
08:00 - 09:00	Arrival and Registration for Educational Day with light refreshments	ATC Registration Desk
09:00 - 18:00	Introductory Course: Iron Essentials for Clinicians and Scientists Coordinated by Jodie Babitt, loav Cabantchik and Hal Drakesmith	ATC Auditorium
09:00 - 09:05	Introductory Remarks Ioav Cabantchik, President IBIS - Hebrew University of Jerusalem, Israel	ATC Auditorium
09:05 - 12:30	Session 1: Basic Properties and Methodologies Chairs: Greg Anderson and Robert Fleming	ATC Auditorium
09:05 - 09:45	Biolron: Origin, chemical properties and evolution Kostas Pantopoulos - McGill University, Canada	
09:45 - 10:30	Iron transport proteins: Gateways of cellular and systemic iron homeostasis Mitchell Knutson - University of Florida, United States of America	
10:30 - 11:00	Coffee Break	ATC Auditorium Foyer
11:00 - 12:30	Session 1: Basic Properties and Methodologies (continued) Chairs: Greg Anderson and Robert Fleming	ATC Auditorium
11:00 - 11:45	Mechanisms controlling cellular iron homeostasis in mammals Rick Eisenstein - University of Wisconsin- Madison, United States of America	
11:45 - 12:30	Systemic iron homeostasis Jodie Babitt - Massachusetts General Hospital, Harvard Medical School, United States of America	
12:30 - 13:30	Lunch	EMBL Canteen
13:30 - 15:30	Session 2: Genetic and Acquired Iron Disorders Chairs: Clara Camaschella and Günter Weiss	ATC Auditorium

Time	Speaker	Location
13:30 - 14:00	Genetic diseases causing iron deficiency and iron overload: Two faces of the same coin Laura Silvestri - San Raffaele Scientific Institute, Italy	
14:00 - 14:30	Erythropoiesis and iron metabolism: Crosstalk, implications, and therapeutic options in iron loading anemias Yelena Ginzburg - Icahn School of Medicine at Mount Sinai, United States of America	
14:30 - 15:30	Iron in cancer, infection, kidney and liver diseases: Innocent bystander or therapeutic target? Igor Theurl and Heinz Zoller - Medical University of Innsbruck, Austria	
15:30 - 16:00	Coffee Break	ATC Auditorium Foyer
16:00 - 17:30	Session 3: Global Issues Chairs: Domenico Girelli and Dorine Swinkels	ATC Auditorium
16:00 - 16:45	The pathophysiology and diagnosis of iron deficiency and anaemia in populations and patients Sant-Rayn Pasricha - Walter and Eliza Hall Institute, Australia	
16:45 - 17:30	Nutritional (dietary) and "functional" deficiencies in the first and third world Michael Zimmermann - ETH Zürich, Switzerland	
17:30 - 18:00	Session 4: The Future of Biolron Chair: Hal Drakesmith	ATC Auditorium
17:30 - 18:00	Open questions in basic and clinical iron research "It is hard to make predictions, especially about the future." Yogi Berra Tomas Ganz and Elizabeta Nemeth - University of California, Los Angeles, United States of America	
17:30 - 18:30	Arrival and Registration for Keynote Lecture and Welcome Reception with light refreshment	ATC Registration Desk

Time	Speaker	Location
18:30 - 19:30	Keynote Lecture: Analyzing microbiomes in us and on our planet Peer Bork - EMBL Heidelberg, Germany	ATC Auditorium
19:30 - 21:30	Welcome Reception with nibbles and refreshments	ATC Auditorium Foyer

Day 2 - Monday 6 May 2019

Time	Spe	aker	Location	
08:00 - 08:4	5	Arrival and Registration with light refreshments		ATC Registration Desk
08:45 - 09:0	0	Welcome Remarks by organisers loav Cabantchil University of Jerusalem, Israe Matthias Hentze - EMBL Heid Martina Muckenthaler - Unive Germany	el lelberg, Germany	ATC Auditorium (streamed to ATC Courtyard Room A & B)
09:00 - 12:3	0	Plenary 1: Cell Biology of Ir Chairs: Bruno Galy and Mat		ATC Auditorium (streamed to ATC Courtyard Room A & B)
09:00 - 09:3	0	Mechanisms of ferroptosis Marcus Conrad - Helmholtz Z Germany	entrum München,	
09:30 - 09:4	5	Mechanisms, pathways and mammalian ferritin secretio Lior Spektor - Technion - Israe Technology, Israel	n	
09:45 - 10:0	0	Novel mechanistic insights regulation of BMP-SMAD pathepoidin expression by FKE Alessandro Dulja - San Raffa Institute, Italy	athway and 3P12	
10:00 - 10:1	5	A novel role for peroxisoma homeostasis Nathan Subramaniam - Quee of Technology, Australia		

10:15 - 10:30	A systems genetics approach to identify genes and pathways involved in liver iron overload and pathology Brie Fuqua - University of California, Los Angeles, United States of America	
10:30 - 11:00	Coffee Break	ATC Foyer
11:00 - 12:30	Plenary 1: Cell Biology of Iron Metabolism (continued) Chairs: Mitchell Knutson and Marie-Paule Roth	ATC Auditorium (streamed to ATC Courtyard Room A & B)
11:00 - 11:30	Transferrin receptor 2 controls bone mass and pathological bone formation via BMP and Wnt signaling Martina Rauner - TU Dresden Medical Center, Germany	
11:30 - 12:00	Regulation of transferrin receptor via S- acylation Aurelio Teleman - German Cancer Research Center, Germany	
12:00 - 12:15	Ncoa4-mediated ferritinophagy maintains murine erythropoiesis via cell autonomous and non-autonomous mechanisms Joseph Mancias - Dana-Farber Cancer Institute, United States of America	
12:15 - 12:30	PCBP1-mediated iron binding and delivery in the cytosol: mechanisms and impacts Caroline Philpott - National Institutes of Health, United States of America	
12:30 - 14:00	Lunch	ATC Auditorium Foyer
14:00 - 15:30	Concurrent Session 1: Iron Deficiency in Cancer Patients: A Clinical Perspective Chairs: Max Gassmann and Andrea Steinbicker	ATC Auditorium
14:00 - 14:20	Iron deficiency in cancer patients: An emerging issue but difficult to define Domenico Girelli - University of Verona, Italy	
14:20 - 14:40	Management of anemia and iron deficiency in cancer patients: What guidelines say? Manuel Muñoz - University of Málaga, Spain	

14:40 - 15:00	Perioperative anemia and iron deficiency in oncological surgery Donat Spahn - University Hospital Zürich, Switzerland	
15:00 - 15:30	Round Table Discussion	ATC Auditorium
14:00 - 15:30	Concurrent Session 2: Erythropoiesis and Iron Chairs: Robert Fleming and Antonella Nai	Large Operon
14:00 - 14:30	Gene therapy to cure hemoglobinopathies Marina Cavazzana - Hôpital Necker - Enfants Malades, France	
14:30 - 14:45	Combining Tfr2-haploinsufficiency with TMPRSS6-antisense oligonucleotides strongly ameliorates the hematological phenotype of thalassemic mice Antonella Nai - San Raffaele Scientific Institute, Italy	
14:45 - 15:00	The regulation of ferroportin and iron regulatory protein 2 on erythropoiesis Deliang Zhang - National Institutes of Health, United States of America	
15:00 - 15:15	The role of glutathione peroxidase 4 and vitamin E in reticulocyte maturation and iron homeostasis Georg W. Bornkamm - Helmholtz Zentrum München, Germany	
15:15 - 15:30	AMPK regulates the expression of the Fe-S cluster assembly enzyme (ISCU) and ALAS2, modulating cellular iron metabolism and increasing hemoglobin synthesis Ping La - Children's Hospital of Philadelphia, United States of America	
14:00 - 15:30	Concurrent Session 3: Heme Physiology and Pathophysiology Chairs: Iqbal Hamza and Emanuela Tolosano	ATC Courtyard Room A & B
14:00 - 14:15	The safe coordinated trafficking of heme and iron after heme-hemopexin endocytosis requires copper for cell homeostasis Ann Smith - University of Missouri, United States of America	
14:15 - 14:30	Heme cytotoxicity in the brain: Microglia polarization and neuronal damage Illyane Lima - NOVA University Lisbon, Portugal	

14:30 - 14:45	Iron deposition associated to vascular damage and hemolysis causes senescence and fibrosis Mate Maus - IRB Barcelona, Barcelona Institute of Science and Technology, Spain	
14:45 - 15:00	Modulating heme biosynthesis alters Toxoplasma sensitivity to antimalarials Clare Harding - University of Glasgow, United Kingdom	
15:00 - 15:15	Metabolic adaptation in colorectal cancer: Heme export is required for the modulation of the tricarboxylic acid cycle Veronica Fiorito - University of Turin, Italy	
15:15 - 15:30	Heme synthesis/Heme export axis as a novel regulator of cellular oxidative metabolism Emanuela Tolosano - University of Turin, Italy	
15:30 - 16:00	Coffee Break	ATC Auditorium Foyer
16:00 - 17:30	Concurrent Session 4: Infection and Inflammation Chairs: Caroline Philpott and Günter Weiss	ATC Auditorium
16:00 - 16:15	Non-transferrin-bound iron in hematopoietic stem cell transplanted patients serves as iron source for Aspergillus fumigatus outgrowth Verena Petzer - Medical University of Innsbruck, Austria	
16:15 - 16:30	Reduction in erythrocyte life span as a key component of mycobacteria induced anemia Maria Salomé Gomes - University of Porto, Portugal	
16:30 - 16:45	The role of TNFa and IFNg in anemia of inflammation, immunity and stress erythropoiesis Stefano Rivella - Children's Hospital of Philadelphia, United States of America	
16:45 - 17:00	Hepcidin-mediated hypoferremic response to acute inflammation requires a threshold of Bmp6/Hjv/Smad signaling Edouard Charlebois - McGill University, Canada	

17:00 - 17:15	Hemolysis and intracellular heme confer protection against anti-CD40-triggered macrophage activation syndrome and vaso-occlusive inflammatory liver disease Giada Ingoglia - University of Zürich, Switzerland	
17:15 - 17:30	Anemia in infants at age 10-24 weeks predicts reduced long-term efficacy of diphtheria vaccine: a 2-year prospective observational study in rural Kenya Nicole Stoffel - ETH Zürich, Switzerland	
16:00 - 17:30	Concurrent Session 5: Liver Iron-Sensing and Control of the Hepcidin/Ferroportin Regulatory System Chairs: Laura Silvestri and Jodie Babitt	Large Operon
16:00 - 16:30	New modes of hepcidin regulation Hal Drakesmith - University of Oxford, United Kingdom	
16:30 - 16:45	Endothelial Bmp2 knockout exacerbates hemochromatosis in Hfe knockout mice but not Bmp6 knockout mice Xia Xiao - Massachusetts General Hospital, Harvard Medical School, United States of America	
16:45 - 17:00	The hemochromatosis proteins are dispensable for acute BMP2-mediated hepcidin upregulation in mice Alessia Pagani - San Raffaele Scientific Institute, Italy	
17:00 - 17:15	MyD88 regulates the expression of SMAD4 and the iron regulatory hormone hepcidin Macha Samba Mondonga - University of Montreal, Canada	
17:15 - 17:30	Spatial zonation of hepcidin in the liver is patterned by testosterone Hélène Coppin - INSERM, France	
16:00 - 17:30	Concurrent Session 6: Iron and Neurodegeneration Chairs: Ashley Bush and Raffaella Gozzelino	ATC Courtyard Room A & B
16:00 - 16:30	Is ferroptosis, a newly characterized iron- dependent form of cell death, a clue for neuroprotection in Parkinson's disease? David Devos - University of Lille, France	

16:30 - 16:45	Evidence for communication between systemic iron status and cerebrospinal fluid: Clinical implications for therapeutic strategy James Connor - Pennyslvania State University, United States of America	
16:45 - 17:00	Mitochondrial ferritin attenuates ferroptosis and ER-stress induced apoptosis in an experimental model of ischemic stroke Peina Wang - Hebei Normal University, China	
17:00 - 17:15	How and why does iron storage fail with age? Gawain McColl - University of Melbourne, Australia	
17:15 - 17:30	Changes in gut microbiota: An early event in Parkinson's disease Raffaella Gozzelino - NOVA University of Lisbon, Portugal	
16:00 - 17:30	Concurrent Session 7: Iron Deficiency Disorders and Their Treatment Chairs: Diego Moretti and Heinz Zoller	Small Operon
16:00 - 16:15	The effect of genetic variation in TMPRSS6 (SNP rs855791) on iron metabolism and oral iron absorption: a stable iron isotope study in Taiwanese women Sung-Nan Pei - Chia-Yi Chang Gung Memorial Hospital, Taiwan	
16:15 - 16:30	Tmprss6-/- mice show plasma FGF23 elevation that is influenced by Fgf23 gene dosage Xiuqi Li - Yale School of Medicine, United States of America	
16:30 - 16:45	Generation and development of KY1070, a fully human anti-BMP6 antibody for treatment of Anemia of Chronic Disease Volker Germaschewski - Kymab, United Kingdom	
16:45 - 17:00	Iron deficiency and a genetic risk score derived from GWAS are associated with Restless Legs Syndrome and its severity in 20,000 blood donors David J. Roberts - University of Oxford, United Kingdom	

17:00 - 17:15	Novel formulations to fortify rice with iron: Evidence and public health potential Diego Moretti - Swiss Distance University of Applied Sciences, Switzerland	
17:15 - 17:30	Fecal microbiota as a biomarker to predict the tissue iron accumulation in intestine epithelial cells and liver Liwei Xie - Guangdong Institute of Microbiology, China	
17:30 - 18:00	Meet the Master Interview with Maria de Sousa with refreshments Presenter: loav Cabantchik	ATC Auditorium Foyer Stage
18:00 - 19:30	Dinner	EMBL Canteen
18:00 - 19:30 19:30 - 20:30	Open Debate: Controversies in Bioiron Topic: Intravenous Iron Supplementation in Chronic Cardiac Failure Moderator: Tomas Ganz In Favor: Iain Macdougall - King's College Hospital, United Kingdom Against: Hossein Ardehali - Northwestern University, United States of America	EMBL Canteen ATC Courtyard A & B

Day 3 - Tuesday 7 May 2019

Time	Spea	aker	Location	
Meet the Expert 1: Gene Therapy for Iron Disorders Stefano Rivella - University of Pennsylvania, United States of America Concurrent sessions. Students / trainees only - Space is limited, pre-registration essential.		of America ts / trainees only -	ATC Helix Seminar Room A	
07:45 - 08:4	.5	Meet the Expert 2: Tracing to Dynamics of Iron and Heme Iqbal Hamza - University of Mind States of America Concurrent sessions. Students Space is limited, pre-registration	aryland, United	ATC Helix Seminar Room B

09:00 - 12:30	Plenary 2: Disorders of Iron Metabolism Chairs: Clara Camaschella and Antonello Pietrangelo	ATC Auditorium (streamed to ATC Courtyard Room A & B)
09:00 - 09:30	The battle for iron between pathogens, the host, and the microbiota in the inflamed gut Manuela Raffatellu - University of California, San Diego, United States of America	
09:30 - 10:00	Ferritinophagy and cell cycle control Francesca Carlomagno - University of Naples Federico II, Italy	
10:00 - 10:15	The natural history of ferroportin Ddsease – first results of the international, multicenter non-HFE registry Benedikt Schaefer - Medical University of Innsbruck, Austria	
10:15 - 10:30	New insights into the molecular mechanisms underlying the pro-atherosclerotic effect of non-transferrin-bound iron Francesca Vinchi - New York Blood Center, United States of America	
10:30 - 11:00	Coffee Break	ATC Auditorium Foyer
11:00 - 12:30	Plenary 2: Disorders of Iron Metabolism (continued) Chairs: Tomas Ganz and Stefano Rivella	ATC Auditorium (streamed to ATC Courtyard Room A & B)
11:00 - 11:30	Treating leukemia with oxidative ferrotherapy Monica Guzman - Cornell University, United States of America	
11:30 - 12:00	Iron, ferroptosis, aging and Alzheimer's disease Ashley Bush - The Florey Institute of Neuroscience and Mental Health, Australia	
12:00 - 12:15	Differential effects of IRP1 deficiency versus HIF-2a IRE deletion on postnatal erythropoiesis in mice Rick Eisenstein - University of Wisconsin- Madison, United States of America	

12:15 - 12:30	Absence of iron-responsive element-binding protein 2 causes a novel neurodegenerative syndrome Nunziata Maio - National Institutes of Health, United States of America	
12:30	Packed Lunch	ATC Auditorium Foyer
From 12:30	Free Afternoon	
19:00 - 20:30	Drinks Reception with Live Music Blue Note Jazz Trio Ticketed event. Heidelberg Castle	Heidelberg Castle

Day 4 - Wednesday 8 May 2019

Time	Spe	eaker	Location	
07:45 - 08:4	45	Meet the Expert 3: Translation Discoveries to Clinical Practical Tomas Ganz - University of Congress, United States of Amelicabeta Nemeth - University Angeles, United States of Amelicabeta Nemeth - University Angeles, United States of Amelicabeta States of Amelica	ctice California, Los nerica y of California, Los nerica nerica ts / trainees only -	ATC Helix Seminar Room A
07:45 - 08:4	45	Meet the Expert 4: Biophys to Iron Speciation in Cells a Development Robert Hider - King's College Kingdom Paul Lindahl - Texas A&M Un States of America Concurrent sessions. Student Space is limited, pre-registrate	and Organ London, United niversity, United ats / trainees only -	ATC Helix Seminar Room B
09:00 - 12:0	30	Plenary 3: Biology of Iron-S Chairs: Roland Lill* and Ioa (* COST Action 15133 "The E sulfur Proteins: from Cellular Molecular Aspects (FeSBioN	av Cabantchik Biogenesis of Iron- Biology to	ATC Auditorium (streamed to ATC Courtyard Room A & B)
09:00 - 09:0	30	Iron homeostasis regulates heterochromatin assembly genome control Shiv Grewal - National Institu Health, United States of Ame	in adaptive	

09:30 - 10:00	Irp2 regulates insulin production through iron-mediated Cdkal1-catalyzed tRNA modification Elisabeth Leibold - University of Utah, United States of America	
10:00 - 10:30	Friedreich ataxia: role of frataxin and pathophysiological consequences Hélène Puccio* - INSERM, France	
10:30 - 11:00	Coffee Break	ATC Auditorium Foyer
11:00 - 12:30	Plenary 3: Biology of Iron-Sulfur Proteins (continued) Chairs: Tracey Rouault and Caroline Enns (* COST Action 15133 "The Biogenesis of Iron- sulfur Proteins: from Cellular Biology to Molecular Aspects (FeSBioNet))	ATC Auditorium (streamed to ATC Courtyard Room A & B)
11:00 - 11:30	Cytosolic and nuclear iron-sulfur protein assembly Oliver Stehling* - Philipps University of Marburg, Germany	
11:30 - 12:00	The lability of the NEET proteins' iron sulphur cluster: Biomedical implication Rachel Nechushtai* - Hebrew University of Jerusalem, Israel	
12:00 - 12:15	Fe-S cluster biogenesis in DNA repair proteins: Structural studies of the CIA machinery Susanne Kassube - Friedrich Miescher Institute for Biomedical Research, Switzerland	
12:15 - 12:30	Dimeric ferrochelatase bridges ABCB7 and ABCB10 homodimers in an architecturally defined molecular complex required for heme biosynthesis Nunziata Maio - National Institutes of Health, United States of America	
12:30 - 14:15	Lunch	ATC Auditorium Foyer
14:15 - 15:15	Concurrent Session 8: Cardiovascular Disease Chairs: Hossein Ardehali and Samira Lakhal- Littleton	ATC Auditorium

14:15 - 14:30	Unexpected differences in cardiac iron metabolism and survival in Hepcidin-ko and FpnC326S mice Sandro Altamura - Heidelberg University, Germany	
14:30 - 14:45	Role of mTOR-TTP Pathway in cardiac response to iron deficiency Hossein Ardehali - Northwestern University, United States of America	
14:45 - 15:00	Smooth muscle cell iron retention contributes to the pathology of abdominal aortic aneurysm Paul Loick - University of Oxford, United Kingdom	
15:00 - 15:15	Interfering with endothelial heme metabolism to control the angiogenic process Sara Petrillo - University of Turin, Italy	
14:15 - 15:15	Concurrent Session 9: Macrophage and Iron Metabolism Chairs: Igor Theurl and Francesca Vinchi	Large Operon
14:15 - 14:30	Systemic dysfunction in Lysinuric Protein Intolerance drives immune complications Susanna Bodoy - IRB Barcelona, Spain	
14:30 - 14:45	Myeloid heavy chain ferritin mitigates ischemic acute kidney injury Laurence Black - University of Alabama at Birmingham, United States of America	
14:45 - 15:00	The macrophage iron phenotype – a novel target in cancer therapy? Christina Mertens - Heidelberg University Hospital, Germany	
15:00 - 15:15	Transfusion-induced impairment of macrophage responses is partially restored by the iron chelator deferasirox Francesca Vinchi - New York Blood Center, United States of America	
14:15 - 15:15	Concurrent Session 10: Iron Biology and Disease Chairs: Sonia Levi and Mayka Sanchez	ATC Courtyard Room A & B

14:15 - 14:30	Induction of erythroferrone in healthy humans by microdose recombinant erythropoietin or high altitude exposure Elena Gammella - University of Milan, Italy	
14:30 - 14:45	Iron Regulatory Protein 1 requires glycogen branching enzyme and mitoNEET to remain functional as an iron-regulatory holo-form Kirst King-Jones - University of Alberta, Canada	
14:45 - 15:00	TGFß regulates BMP2 in liver sinusoidal endothelial cells: A possible link between chronic liver disease and iron overload Silvia Colucci - Heidelberg University, Germany	
15:00 - 15:15	PIGA germline mutations may cause a novel subtype of hereditary hemochromatosis Lena Muckenthaler - Heidelberg University, Germany	
15:15 - 16:00	Coffee Break	ATC Auditorium Foyer
16:00 - 17:30	Concurrent Session 11: Iron Overload, Iron Chelation and Targeted Therapies Chairs: Robert Hider and Dorine Swinkels	ATC Auditorium
16:00 - 16:15	A new orally active iron chelator: CN128 Robert Hider - King's College London, United Kingdom	
16:15 - 16:30	Applications of nanotechnology to the delivery of iron chelators Greg Anderson - QIMR Berghofer Medical Research Institute, Australia	
16:30 - 16:45	Orally-delivered ginger nanoparticle-derived lipid vectors target functional Dmt1 siRNAs to duodenal enterocytes and Mitigate Iron Loading in Hepcidin KO Mice Xiaoyu Wang - University of Florida, United States of America	
16:45 - 17:00	Gastrointestinal iron excretion and reversal of iron excess in a mouse model of inherited iron excess Thomas Bartnikas - Brown University, United States of America	

17:00 - 17:15	Novel third-generation ferrostatins protect against acute iron poisoning-induced organ injury Samya Van Coillie - VIB-UGent, Belgium	
17:15 - 17:30	Double knockout of ZIP14 and ZIP8 in mice reveals novel roles for ZIP8 in tissue iron accumulation in iron overload Mitchell Knutson - University of Florida, United States of America	
16:00 - 17:30	Concurrent Session 12: Cancer and Ferroptosis Chairs: Marcus Conrad and Monica Guzman	Large Operon
16:00 - 16:30	MYCN mediates cysteine addiction and sensitizes to ferroptosis Frank Westermann - German Cancer Research Center, Germany	
16:30 - 16:45	Iron induces cell death and synergizes with anti-androgen therapy in prostate cancer preclinical models Alessandro Campanella - San Raffaele Scientific Institute, Italy	
16:45 - 17:00	Amyloid precursor protein (APP) supports tumorigenesis by counteracting iron-mediated oxidative stress and p38MAPK-dependent DNA damage Vivek Venkataramani - University Medical Center Göttingen, Germany	
17:00 - 17:15	NCOA4 expression regulates ferritin accumulation and has differential effects on RSL3- and erastin-induced ferroptosis in HeLa cells Magdalena Gryzik - University of Brescia, Italy	
17:15 - 17:30	Pro-tumor characteristics of macrophage- derived lipocalin-2 (Lcn-2) are determined by its iron-load Michaela Jung - Goethe-University Frankfurt, Germany	
16:00 - 17:30	Concurrent Session 13: Tissue-Specific Regulation of Iron Metabolism Chairs: Yelena Ginzburg and Katarzyna Mleczko-Sanecka	ATC Courtyard Room A & B

16:00 - 16:15	Intracellular iron deficiency in pulmonary arterial smooth muscle cells induces pulmonary arterial hypertension through endothelin-1 Samira Lakhal-Littleton - University of Oxford, United Kingdom	
16:15 - 16:30	Mitoferrin 1/2 Deficiency in Type 2 Alveolar epithelial cells aggravates pulmonary fibrosis Suzanne M. Cloonan - Weill Cornell Medical College, United States of America	
16:30 - 16:45	Iron regulatory protein 2 (IRP2) mediates resistive breathing-induced pulmonary inflammation Kostas Pantopoulos - McGill University, Canada	
16:45 - 17:00	A novel role for iron regulatory proteins in hematopoiesis Michael Bonadonna - German Cancer Research Center, Germany	
17:00 - 17:15	The role of hepatic transferrin in erythropoiesis Yingying Yu - Zhejiang University School of Medicine, China	
17:15 - 17:30	The iron-sensing receptor Tfr2 regulates osteoclastogenesis Ulrike Baschant - TU Dresden, Germany	
17:30 - 18:00	Meet the Master Interview with Lawrie Powell with refreshments Presenter: Greg Anderson	ATC Auditorium Foyer Stage
18:00 - 19:30	Dinner	EMBL Canteen
19:30 - 22:00	Poster Session II (even numbers) with drinks and snacks	ATC Helix A & B

Day 5 - Thursday 9 May 2019

Time Speaker Location

07:45 - 08:45	Meet the Expert 5: DNA Biomarkers of Iron Disorders Domenico Girelli - University of Verona, Italy Dorine Swinkels - Radboud University, The Netherlands Students / trainees only - Space is limited, pre- registration essential.	ATC Helix Seminar Room A
09:00 - 11:00	Plenary 4: Presidential Plenary Session with Top-Scoring Abstracts Chairs: loav Cabantchik and Martina Muckenthaler	ATC Auditorium (streamed to ATC Courtyard Room A & B)
09:00 - 09:20	Iron powers adaptive immune responses to immunisations and influenza virus Joe Frost - University of Oxford, United Kingdom	
09:20 - 09:40	A novel iron chaperone complex delivers iron to the cytosolic [2Fe-2S] cluster distribution system Sarju Patel - National Institutes of Health, United States of America	
09:40 - 10:00	IRP mediated iron homeostasis in gut epithelial cells limits intestinal tumorigenesis Bruno Galy - German Cancer Research Center, Germany	
10:00 - 10:20	Steroyl-CoA Desaturase 1 protects ovarian cancer cells from ferroptotic cell death Suzy Torti - University of Connecticut Health Center, United States of America	
10:20 - 10:40	Delineating heme transport using HRG1- deficient mouse models Iqbal Hamza - University of Maryland, United States of America	
10:40 - 11:00	Ablation of hepatocyte Smad1, Smad5 and Smad8 causes severe tissue iron loading and liver fibrosis in mice Chia-Yu Wang - Massachusetts General Hospital, United States of America	
11:00 - 11:30	Coffee Break	ATC Auditorium Foyer
11:30 - 13:00	Concurrent Session 14: Hereditary Hemochromatosis Chairs: Pierre Brissot and Graça Porto	ATC Auditorium

11:30 - 12:00	Ancient genomics and the origins of the European genome Daniel Bradley - Trinity College Dublin, Ireland	
12:00 - 12:15	The structure-function analysis of ferroportin 1 (FPN1) gating residues sheds new light on the pathogenic mechanisms involved in haemochromatosis type 4A (HC 4A) Marlène Le Tertre -University Hospital Brest, France	
12:15 - 12:30	Iron overload associated osteoporosis could be favored by a low level of hepcidin and/or by an alteration of Mn or Mo metabolisms Olivier Loréal - INSERM, France	
12:30 - 12:45	Penetrance of hereditary hemochromatosis mutations in 450,000 people of European ancestry David Melzer - University of Exeter Medical School, United Kingdom	
12:45 - 13:00	Hemochromatosis: A lower illness with higher implications. A rare opportunity of following the natural history of an age related disease Graça Porto - University of Porto, Portugal	
11:30 - 13:15	Concurrent Session 15: Therapeutic Approaches Chairs: Kostas Pantopoulos and Michael Zimmermann	Large Operon
11:30 - 11:45	The evolution of intravenous iron therapy Carlo Gaillard - University of Utrecht, The Netherlands	
11:45 - 12:00	Evaluation of the intrinsic Hepcidin Idx™ to detect iron deficiency (Id) in adolescents and young adults Mark Fleming - Boston Children's Hospital, United States of America	
12:00 - 12:15	Oral iron therapy in predialysis Chronic Kidney Disease (CKD) patients has no adverse effects on the gut microbiome and circulating uremic toxin concentrations Dorine Swinkels - Radboud University Medical Center, The Netherlands	

12:15 - 12:30	Nanostructured iron compounds for nutrition: Isotope studies in DMT1-knockout mice and Thai women Hans Winkler - ETH Zürich, Switzerland	
12:30 - 12:45	An antisense Oligonucleotide (IONIS-TMPRSS6-LRX) targeting transmembrane protease, Serine 6 (TMPRSS6) induces hepcidin and reduces serum iron and transferrin saturation in healthy volunteers Y Paul Goldberg - Ionis Pharmaceuticals, United States of America	
12:45 - 13:00	SLN124, a GalNAc-siRNA conjugate targeting TMPRSS6, for the treatment of iron overload and lieffective erythropoiesis such as in beta thalassemia Ute Schaeper - Silence Therapeutics GmbH, Germany	
13:00 - 13:15	Characterization of hepcidin and microglia in an Alzheimer mouse model Andreas Popp - Abbvie Deutschland, Germany	
11:30 - 13:00	Concurrent Session 16: Iron and Development Chairs: Elizabeta Nemeth and Nathan Subramaniam	ATC Courtyard Room A & B
11:30 - 11:45	Universal applicable serum hepcidin pediatric reference ranges: set point relative to body iron parameters changes during human growth and development Albertine Donker - Radboud University Medical Center, The Netherlands	
11:45 - 12:00	Iron transport to the fetus is controlled by a 'Selfish' placenta Veena Sangkhae - University of California, Los Angeles, United States of America	
12:00 - 12:15	Maternal iron excess and inflammation during pregnancy synergize to cause embryotoxicity Allison Fisher - University of California, Los Angeles, United States of America	
12:15 - 12:30	Iron and n-3 fatty acid depletion, alone and in combination, during early development provoke anxiety, hedonic and social dysfunction in rats Jeannine Baumgartner - ETH Zürich, Switzerland	

12:30 - 12:45	Behavioral effects of excess ferrous sulfate or ferrous bisglycinate chelate supplementation on suckling rat pups Shasta McMillen - University of California, Davis, United States of America	
12:45 - 13:00	The regulation of cellular heme metabolism is crucial for deurodevelopment Deborah Chiabrando - University of Turin, Italy	
13:00 - 14:30	Lunch	ATC Auditorium Foyer
14:30 - 18:30	Free Time	
14:30 - 15:30	Business Meeting for members of the International Biolron Society	ATC Auditorium
15:30 - 16:30	Hemochromatosis Nomenclature Meeting	ATC Courtyard Room A & B
16:30 - 18:00	Joint European Federation of Associations of Patients with Haemochromatosis (EFAPH) and Haemochromatosis International (HI) Annual General Meeting	Large Operon
18:30 - 19:30	Social Hour with refreshments	ATC Auditorium Foyer
19:30 - 21:30	Farewell Dinner with Award Ceremony	EMBL Canteen
21:30 - 01:00	Party with Live Bands Opening Act: The Iron-Balls Headliner: The Wright Thing	ATC Auditorium Foyer

Day 6 - Friday 10 May 2019 (International Haemochromatosis Patients Meeting)

Time Speaker Location

08:30 - 09:30

What's New

- What is new in HH? Report from the BioIron
 Meeting 2019 (Prof. Mayka Sanchez) (15 min)
- Innovative approaches in HH-therapy (Prof. Pierre Brissot) (15 min)

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- Update of the EuroBloodNet activities (Prof. Graça Porto) (15 min)
- Discussion of three previous presentations (15 min)
- 109:30 10:15 The Impact of Research on Diagnosis and Therapy of Haemochromatosis Patients (Prof. Paul Adams)

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10:15 - 10:35 **Coffee Break**

Foyer Courtyard

Haemochromatosis Arthropathy (HARI Group)

- Update on HARI's projects (Dr. Patrick Kiely) (20 min)
- 10:35 11:20 Outcome of ankle joint replacement (Dr.Axel

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- Questions to previous two presentations (15 min)
- 11:20 11:35 Haemochromatosis Nomenclature Update (Prof. Pierre Brissot)

Braner) (10 min)

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11:35 - 12:20 Review of 2018 by EFAPH and HI Member Associations (F. Courtois – D. Prince)

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12:20 - 13:20 Lunch

EMBL Canteen

Updates and Future Projects

- The future of EFAPH / HI: Towards a closer partnership (Howard Don, Ketil Toska) (20 min)
- World Haemochromatosis Week 2019 (June13:20 16:00 Saturday 1st Sunday 9th) and 2020? (15 min)

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- Future projects continued & agreed actions (45 min) (Dianne Prince, Ketil Toska)
- Other issues

16:00 - 16:30 Concluding Remarks (New presidents of EFAPH and HI)

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