



8th Congress of the International BioIron Society

EMBL CONFERENCE



Preliminary Programme

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

Time	Speaker
	Iron Essentials for Clinicians and Scientists Coordinated by Jodie Babitt, Hal Drakesmith and Ioav Cabantchik
08:00 - 09:00	Arrival and Registration for Educational Day
09:00 - 09:05	Introductory Remarks Ioav Cabantchik, President IBIS - Hebrew University of Jerusalem, Israel
09:05 - 12:30	Session 1: Basic Properties and Methodologies Chairs: Robert Fleming and Greg Anderson
09:05 - 09:45	BioIron: origin, chemical properties and evolution Kostas Pantopoulos - McGill University, Canada

Time	Speaker
09:45 - 10:30	Iron transport proteins: gateways of cellular and systemic iron homeostasis Mitchell Knutson - University of Florida, USA
10:30 - 11:00	Coffee Break
11:00 - 11:45	Mechanisms controlling cellular iron homeostasis in eukaryotes Rick Eisenstein - University of Wisconsin-Madison, USA
11:45 - 12:30	Systemic iron homeostasis Jodie Babitt - Massachusetts General Hospital, Harvard Medical School, USA
12:30 - 13:30	Lunch in EMBL Canteen
13:30 - 15:30	Session 2: Genetic and Acquired Iron Disorders Chairs: Clara Camaschella and Günter Weiss
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, USA
14:30 - 15:30	Iron in cancer, infection, kidney and liver diseases: innocent bystander or therapeutic target? Igor Theurl - University Hospital of Innsbruck, Austria and Heinz Zoller - Medical University of Innsbruck, Austria
15:30 - 16:00	Coffee Break
16:00 - 17:30	Session 3: Global Issues Chairs: Domenico Girelli and Dorine Swinkels
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

Time	Speaker
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 BioIron Chair: Hal Drakesmith
17:30 - 18:00	Open questions in basic and clinical iron research Elizabeth Nemeth - University of California, Los Angeles, USA and Tomas Ganz - University of California, Los Angeles, USA
17:30 - 18:30	Arrival and Registration for Keynote Lecture and Welcome Reception
18:30 - 19:30	Keynote Lecture: The microbiome Peer Bork - EMBL Heidelberg, Germany
19:30 - 21:30	Welcome Reception

Day 2 - Monday 6 May 2019 (First Day of Congress)

Time	Speaker
08:00 - 08:45	Arrival and Registration
08:45 - 09:00	Welcome Remarks Ioav Cabantchik - Hebrew University of Jerusalem, Israel Matthias Hentze - EMBL Heidelberg, Germany Martina Muckenthaler - University of Heidelberg, Germany
09:00 - 12:30	Plenary 1: Cell Biology of Iron Metabolism Chairs: Bruno Galy and Matthias Hentze
10:30 - 11:00	Mechanisms of ferroptosis Marcus Conrad - Helmholtz Zentrum München, Germany
	Short talks from selected abstracts
	Coffee Break

	Plenary 1: Cell Biology of Iron Metabolism (continued) Chairs: Tomas Ganz and Marie-Paule Roth
	Role of the iron-sensing receptor Tfrr2 in bone Martina Rauner - Bone Lab Dresden, Germany
	Iron and lipid metabolism Speaker to be announced
	Short talks from selected abstracts
12:30 - 14:00	Lunch in ATC Foyer
14:00 - 15:30	Concurrent Session 1: Hypoxia Chair: Max Gassmann and Andrea Steinbicker
	Short talks from selected abstracts
14:00 - 15:30	Concurrent Session 2: Erythropoiesis and Iron Chairs: Stefano Rivella and Antonella Nai
	Gene therapy to cure hemoglobinopathies Marina Cavazzana - Hôpital Necker - Enfants Malades, France
	Short talks from selected abstracts
14:00 - 15:30	Concurrent Session 3: Iron Deficiency (incl. Anemia of Chronic Kidney Disease), Iron Supplementation and Targeted Therapies Chairs: Diego Moretti and Iain Macdougall
	Short talks from selected abstracts
14:00 - 15:30	Iron deficiency in cancer patients: a clinical perspective
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 Malaga, Spain
14:40 - 15:00	Perioperative anemia and iron deficiency in oncological surgery Donat Spahn - University Hospital of Zurich, Switzerland

15:00 - 15:30	Round table discussion
15:30 - 16:00	Coffee Break
16:00 - 17:30	Concurrent Session 4: Infection and Inflammation Chair: Günter Weiss and Hai Drake-Smith
	Short talks from selected abstracts
16:00 - 17:30	Concurrent Session 5: Iron and Neurodegeneration Chairs: Raffaella Gozzelino and Ashley Bush
	Title to be announced David Devos - Centre Hospitalier Régional Universitaire de Lille, France
	Iron, ferroptosis, aging and Alzheimer's disease Ashley Bush - Florey Institute of Neuroscience & Mental Health, Australia
	Short talks from selected abstracts
16:00 - 17:30	Concurrent Session 6: Liver Iron-Sensing and Control of the Hepcidin/Ferroportin Regulatory System Chairs: Laura Silvestri and Jodie Babbitt
	Title to be announced Christian Siebold - University of Oxford, UK
	Short talks from selected abstracts
17:30 - 18:00	Meet the Master Maria de Sousa
18:00 - 19:30	Dinner in EMBL Canteen
19:30 - 22:00	Poster Session I

Day 3 - Tuesday 7 May 2019 (Second Day of Congress)

Time Speaker

07:30-08:30	Meet the Expert 1: Gene Therapy for Iron Disorders Stefano Rivella - University of Pennsylvania, USA Meet the Expert 2: Tracing the Intracellular Dynamics of Iron and Heme Iqbal Hamza - University of Maryland, USA Concurrent sessions. Students / trainees only - Space is limited, pre-registration essential.
09:00-12:30	Plenary 2: Disorders of Iron Metabolism Chairs: Clara Camaschella and Antonello Pietrangelo The impact of dietary iron on gut microbiota and liver metabolism Manuela Raffatellu - University of California, San Diego, USA Short talks from selected abstracts
10:30-11:00	Coffee Break Plenary 2: Disorders of Iron Metabolism (continued) Chair: Tomas Ganz and Stefano Rivella Treating Leukemia with oxidative ferrotherapy Monica Guzman - Cornell University, USA Short talks from selected abstracts
12:30	Packed Lunch Free Afternoon
Evening	Drinks Reception Held off-site - more details to come.

Day 4 - Wednesday 8 May 2019 (Third Day of Congress)

Time Speaker

07:30 - 08:30	<p>Meet the Expert 3: Translating Biologic Discoveries to Clinical Practice Tomas Ganz - University of California, Los Angeles, USA Elizabeth Nemeth - University of California, Los Angeles, USA</p> <p>Meet the Expert 4: Biophysical Approaches to Iron Speciation in Cells and Organ Development Robert Hider - King's College London, UK Paul Lindahl - Texas A&M University, USA</p> <p>Concurrent sessions. Students / trainees only - Space is limited, pre-registration essential.</p>
09:00 - 12:30	<p>Plenary 3: Iron, Iron-Sulfur Clusters and Evolution Across Systems Chairs: Roland Lill and Caroline Philpott</p> <p>Title to be announced Shiv Grewal - National Institutes of Health, USA</p> <p>Short talks from selected abstracts</p>
10:30 - 11:00	<p>Coffee Break</p>
11:00 - 12:20	<p>Biology of Iron-Sulfur Proteins (COST) Chair: TBC</p> <p>Title to be announced Betty Leibold - University of Utah, USA</p> <p>Title to be announced Rachel Nechushtai - Hebrew University of Jerusalem, Israel</p> <p>Friedreich ataxia: role of frataxin and pathophysiological consequences Hélène Puccio - Institute of Genetics and Molecular and Cellular Biology, France</p> <p>Cytosolic and nuclear iron-sulfur protein assembly Oliver Stehling - Philipps University of Marburg, Germany</p>
12:30 - 14:00	<p>Lunch in ATC Foyer</p>
14:00 - 15:30	<p>Concurrent Session 7: Cardiovascular Disease Chairs: Hossein Ardehali</p> <p>Short talks from selected abstracts</p>

14:00 - 15:30	<p>Concurrent Session 8: Macrophage and Iron Metabolism Chair: Francesca Vinchi</p> <p>Short talks from selected abstracts</p>
14:00 - 15:30	<p>Concurrent Session 9: Iron-Sensors and Chaperones Chair: Caroline Philpott</p> <p>Ferritinophagy Francesca Carlomagno - University of Naples Federico II, Italy</p> <p>Short talks from selected abstracts</p>
15:30 - 16:00	<p>Coffee Break</p>
16:00 - 17:30	<p>Concurrent Session 10: Iron Overload, Iron Chelation and Targeted Therapies Chairs: Bob Hider and Dorine Swinkels</p> <p>Short talks from selected abstracts</p>
16:00 - 17:30	<p>Concurrent Session 11: Tissue-Specific Regulation of Iron Metabolism Chair: Carole Peyssonnaud</p> <p>Short talks from selected abstracts</p>
16:00 - 17:30	<p>Concurrent Session 12: Cancer and Ferroptosis Chair: Monica Guzman</p> <p>MYCN mediates cysteine addiction and sensitizes to ferroptosis Frank Westermann - German Cancer Research Center, Germany</p> <p>Short talks from selected abstracts</p>
17:30 - 18:00	<p>Meet the Master Laurie Powell</p>
18:00 - 19:30	<p>Dinner in EMBL Canteen</p>
19:30 - 22:00	<p>Poster Session II</p>

Day 5 - Thursday 9 May 2019 (Final Day of Congress)

Time Speaker

- 07:30 - Meet the Expert 5: DNA Biomarkers of Iron Disorders
Domenico Girelli - University of Verona, Italy
- 08:30 - Dorine Swinkels - Radboud University Nijmegen, The Netherlands
Students / trainees only - Space is limited, pre-registration essential.
- 09:00 - Plenary 4: Presidential plenary session with the best selected abstracts from the whole field of BioIron
11:00 - Chairs: Ioav Cabantchik and Martina Muckenthaler
Talks from selected abstracts
- 11:00 - Coffee Break
11:30 - Concurrent Session 13: Iron and Development
13:30 - Chair: Elizabeth Nemeth and Nathan Subramaniam
Short talks from selected abstracts
- 11:30 - Concurrent Session 14: Hereditary Hemochromatosis
13:30 - Chairs: Graça Porto and Pierre Brissot
- Ancient genomics and the origins of the European genome
Daniel Bradley - University of Dublin, Ireland
Short talks from selected abstracts
- 11:30 - Concurrent Session 15: Heme Physiology and Pathophysiology
13:30 - Chairs: Iqbal Hamza and Emanuela Tolosano
Short talks from selected abstracts
- 13:30 - Lunch in ATC Foyer
14:30 - Business Meeting
15:30 - Closed meeting.
- 15:30 - Hemochromatosis Nomenclature Meeting
16:30 - with coffee break
Closed meeting.
- 16:30 - Joint European Federation of Associations of Patients with
18:00 - Haemochromatosis (EFAPH) and Haemochromatosis International (HI) Annual General Meeting
- 16:30 - Free Time
18:30 -

- 18:30 - Social Hour
19:30 -
- 19:30 - Farewell Dinner with Award Ceremony
21:30 -
- 21:30 - Conference Party with Live Band
01:00 -

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

- | Time | Speaker |
|---------------|--|
| 09:00 - 10:20 | What's New |
| 10:20 - 10:40 | Coffee Break |
| 10:40 - 11:30 | Haemochromatosis Arthropathy (HARI Group) |
| 11:30 - 12:15 | Review of 2018 by EFAPH and HI member associations |
| 12:15 - 13:15 | Lunch |
| 13:15 - 15:50 | Updates and Future Projects |
| 15:50 - 16:00 | Concluding Remarks |

