



Techniques for Studying Iron in Health and Disease

EMBL COURSE

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 The content below is no longer being updated.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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Further information about the course can be found on the bioiron.org website.

[HIDE ALL](#)

Day 1 - Thursday 2 May 2019

Time	Speaker	Location
Topic:		
Assays for Assessing Biomarkers of Iron Homeostasis and Dyshomeostasis		
Coordinator: D. Swinkels		
08:40 - 09:00	Arrival & Registration	Flex Labs A & B
09:00 - 09:15	Welcome and Housenotes	Flex Labs A & B
09:15 - 09:45	Ice Breaking Activity	Flex Labs A & B

Time	Speaker	Location
	Course Introduction	
09:45 - 09:55	Ioav Cabantchik - Hebrew University of Jerusalem, Israel	Flex Labs A & B
09:55 - 10:15	Coffee break	Outside Training Lab Area
	Generation and interpretation of assay test results for biomarkers of iron homeostasis and dyshomeostasis	
10:15 - 12:20	Dorine Swinkels - Radboud University, The Netherlands	Flex Labs A & B
12:20 - 13:15	Lunch break	EMBL Canteen
	Practical in groups	
13:15 - 15:00	Rian Roelofs - Radboudumc Center for Iron Disorders, The Netherlands Rachel van Swelm - Radboud University, The Netherlands	Training Lab B
15:00 - 15:30	Coffee break	Outside Training Lab Area
	Practical in groups	
15:30 - 18:00	Rian Roelofs - Radboudumc Center for Iron Disorders, The Netherlands Rachel van Swelm - Radboud University, The Netherlands	Training Lab B
	Data calculations and preparation of presentation for discussion	
18:00 - 19:00	Dorine Swinkels - Radboud University, The Netherlands Rachel van Swelm - Radboud University, The Netherlands	Flex Labs A & B
19:00 - 20:00	Dinner	EMBL Canteen
	Discussion of Day 1	
20:00 - 21:00	Dorine Swinkels - Radboud University, The Netherlands	Flex Labs A & B

Day 2 - Friday 3 May 2019

Time	Speaker	Location
	Topic: Dynamics of Iron-Sulfur Proteins - from Solution to Cells Coordinator: R. Lill and R. Nechushtai	
09:00 - 09:15	Overview of the day Introduction to Practicals Native-PAGE an analytical tool to follow 2Fe-2S cluster transfer Ola Karmi - Hebrew University of Jerusalem, Israel Absorption spectroscopy to follow cluster transfer Henri-Baptiste Margault - Hebrew University of Jerusalem, Israel	Flex Labs A & B
09:15 - 10:45	The role of the NEET proteins in Iron homeostasis Yang Sung Sohn - Hebrew University of Jerusalem, Israel (Bio)chemical examination of ISC targeting factors Vinzent Schulz - Philipps-Universität Marburg, Germany Analysis of Fe/S enzyme activities in tissue culture material Oliver Stehling - Philipps-Universität Marburg, Germany	Flex Labs A & B
10:45 - 11:00	Coffee break	Outside Training Lab Area
11:00 - 12:30	Practical Part I	Training Lab B
12:30 - 13:30	Lunch break	EMBL Canteen
13:30 - 14:30	Practical Part II	Training Lab B
14:30 - 15:30	Eukaryotic iron-sulfur protein biogenesis Roland Lill - Philipps-Universität Marburg, Germany	Flex Labs A & B
15:30 - 15:45	Coffee break	Outside Training Lab Area
15:45 - 17:15	Practical Part III	Training Lab B

Time	Speaker	Location
	Labile [2Fe-2S] clusters	
17:15 - 18:00	Rachel Nechushtai - Hebrew University of Jerusalem, Israel	Flex Labs A & B
18:00 - 19:00	Dinner	EMBL Canteen
19:00 - 20:00	Closing Session	Flex Labs A & B

Day 3 - Saturday 4 May 2019

Time	Speaker	Location
	Topic: Fluorescence Monitoring of Labile Iron Trafficking in Cells and Iron Speciation in Animal Fluids and Organs Coordinator: I. Cabantchik, R. Hider and C. Pourzand	
	Total metal pool measurement / In situ analysis in Mitochondria	
09:00 - 09:35	Wing-Hang Tong - Eunice Kennedy Shriver National Institute of Child Health and Human Development, USA	Flex Labs A & B
	Intracellular Iron	
09:35 - 10:15	Ioav Cabantchik - Hebrew University of Jerusalem, Israel	Flex Labs A & B
10:15- 10:45	Coffee break	Outside Training Lab Area
	Extracellular iron	
10:45 - 11:15	Robert Hider - King's College London, United Kingdom	Flex Labs A & B
11:15 - 11:30	Discussion	Flex Labs A & B

Time	Speaker	Location
	Introduction to Practicals	
	Intracellular probing Maya Shvartsman - EMBL Rome, Italy	
11:30 - 12:30	Extracellular probing Breno Pannia Esposito - University of Sao Paulo, Brazil	Flex Labs A & B / Training Lab B
	Mitochondrial Iron probing Charareh Pourzand - Bath University, United Kingdom	
12:30 - 13:30	Lunch break	EMBL Canteen
	Practical in groups Breno Pannia Esposito - University of Sao Paulo, Brazil	
13:30 - 17:30	Charareh Pourzand - Bath University, United Kingdom Maya Shvartsman - EMBL Rome, Italy Yang Sung Sohn - Hebrew University of Jerusalem, Israel	Training Lab B
17:15 - 17:30	Coffee break (exact time: depending on each group practical)	Outside Training Lab Area
	Data analysis and Discussion of Day 3 Ioav Cabantchik - Hebrew University of Jerusalem, Israel	
17:30 - 18:30	Breno Pannia Esposito - University of Sao Paulo, Brazil Robert Hider - King's College London, United Kingdom Charareh Pourzand - Bath University, United Kingdom Maya Shvartsman - EMBL Rome, Italy	Flex Labs A & B
18:30 - 19:15	General discussion (incl. Data Presentation and Questions) All Faculty	Flex Labs A & B
19:30	End of course	