



Metabolism Meets Epigenetics

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Location & dates

EMBL Heidelberg, Germany 20 - 23 Nov 2019

Deadlines

Registration closed Abstract submission closed



Programme

Got something to say? Tweet it! #EESMetabolism

Day 1 - Wednesday 20 November 2019

Time	Speaker
11:00- 13:15	Arrival and Registration
13:15- 13:30	Opening remarks
13:30- 14:30	Keynote Lecture 1: Metabolic-epigenetic axis in memory programming and disease Shelley Berger - University of Pennsylvania, USA

Time	Speaker
14:30- 18:15	Session 1: Metabolism Chair: Erika Pearce - Max Planck Institute of Immunobiology and Epigenetics, Germany
14:30- 15:00	Transcriptional networks and epigenomic mechanisms driving lineage determination of human mesenchymal stem cells Susanne Mandrup - University of Southern Denmark, Denmark
15:00- 15:30	Metabolism, chromatin and transcription during a metabolic cycle Jane Mellor - University of Oxford, UK
15:30- 16:00	Coffee Break & Meet the Editors
16:00- 16:30	Epigenetic modifications on chromatin: more or less than meets the eye? Benjamin Tu - University of Texas Southwestern Medical Center, USA
16:30- 17:00	Glycolytic flux control of mouse embryo segmentation Hidenobu Miyazawa - EMBL Heidelberg, Germany
17:00- 17:15	Selected Short Talk: Riboregulation of Glycolysis via Human Enolase1 Ina Huppertz - EMBL Heidelberg, Germany
17:15- 17:30	Selected Short Talk: Discovering key metabolic and bioenergetic signaling molecules during mitochondrial dysfunction Yeyun Ouyang - Univeristy of Utah,USA

Time	Speaker
17:30- 17:45	Selected Short Talk: Metabolic competition between phospholipid synthesis and histone methylation controls sexual differentiation in malaria parasites Björn Kafsack - Weill Cornell Medical College, USA
17:45 - 18:00	Selected Short Talk: NAD synthesis in glioblastoma cells Christiane Opitz - German Cancer Research Center (DKFZ), Germany
18:00 -18:15	Selected Short Talk: Glutamine metabolism controls chondrocyte fate and function during bone development Steve Stegen - KU Leuven, Belgium
18:15- 20:15	Dinner in the EMBL Canteen
20:15- 22:00	Poster "Sneak Preview", Helix A (all numbers)
21:00 - 22:00	Welcome Drinks in the ATC Rooftop Lounge
19:00, 20:00, 21:00, 22:00	Bus departure

Day 2 - Thursday 21 November 2019

Time	Speaker
09:00- 12:00	Session 2: Epigenetics Chair: Jane Mellor - University of Oxford, UK
09:00- 09:30	MOF histone acetyl transferase containing NSL complex linking epigenetics and metabolism Asifa Akhtar - Max Planck Institute of Immunobiology and Epigenetics, Germany

Time	Speaker
09:30- 10:00	Histone Crotonylation Links Metabolism to Gene Expression Ashby Morrison - Stanford University, USA
10:00- 10:30	A NAD Metabolite Triggers the Allosteric Activation of the Chromatin Remodeling Oncogene ALC1/CHD1L Andreas Ladurner - Ludwig Maximilian University of Munich, Germany
10:30- 11:00	Coffee Break
11:00- 11:15	Selected Short Talk: Repression of Mammalian Promoters by Methylation-Directed O-Glycosylation of Chromatin Factors Matthieu Boulard - EMBL Rome, Italy
11:15- 11:30	Selected Short Talk: Histone variants link metabolism to 3D chromatin architecture Marcus Buschbeck - Josep Carreras Leukaemia Research Institute, Spain
11:30- 11:45	Selected Short Talk: Modulation of human mitochondrial metabolism by novel lysine-specific methyltransferases Pål Falnes - University of Oslo, Norway
11:45- 12:00	Selected Short Talk: Metabolic adaptations underlie epigenetic changes in chemotherapy-resistant breast cancer Geneviève Deblois - McGill University, Canada
12:00- 13:30	Lunch in the ATC Foyer
13:30- 17:15	Session 3: Immunometabolism Chair: Marcia Haigis - Harvard Medical School, USA

Time	Speaker
13:30- 14:00	Metabolic and Epigenetic Reprogramming in Myeloid Cells Mihai G. Netea - Radboud University Medical Center, The Netherlands
14:00- 14:30	Regulation of antiviral and anti tumor T cell responses by sphingolipid metabolism Guoliang Cui - German Cancer Research Center (DKFZ), Germany
14:30- 15:00	Metabolic regulation of anti tumor immunity Susan Kaech - Salk Institute for Biological Studies, USA
15:00- 15:30	Coffee Break
15:30- 16:00	Erika Pearce - Max Planck Institute of Immunobiology and Epigenetics, Germany
16:00- 16:15	Selected Short Talk: Metabolic reprogramming of myeloid cells prevents age-associated cognitive decline Andreasson Katrin, Stanford University, USA
16:15- 16:30	Selected Short Talk: Aberrant lipid metabolism and pro-inflammatory macrophage activation define NSAID-exacerbated respiratory disease Julia Esser-von Bieren - Technical University of Munich and Helmholtz Center Munich, Germany
16:30- 16:45	Selected Short Talk: Calcineurin-NFAT alters the energy metabolism of activated human monocytes Marcela Hortova Kohoutkova - International Clinical Research Center of St. Anne's University Hospital in Brno, Czech Republic

Time	Speaker
16:45- 17:00	Selected Short Talk: The mitochondrial encoded peptide MOTS-c regulates T cell metabolism to prevent autoimmune diabetes ByungSoo Kong - Seoul National University Hospital, Republic of Korea
17:00- 17:15	Flash Talk Session 1: #65, 75, 85, 135, 157, 161
17:15- 19:00	Poster Session 1 (odd numbers), Helix A
19:00- 21:00	Dinner in the EMBL Canteen
21:00- 22:00	After Dinner drinks in the ATC Rooftop Lounge
20:00, 21:00, 22:00	Bus departure

Day 3 - Friday 22 November 2019

Time	Speaker
09:00- 11:45	Session 4: Novel tools Chair: Andrew Pospisilik - Van Andel Institute, USA
09:00- 09:30	Fluorescent and Bioluminescent Sensor Proteins for NAD(P) Kai Johnsson - Max Planck Institute for Medical Research, Germany
09:30- 10:00	Exploring the microbiota-host epigenetics axis in diet induced obese mice upon lifestyle intervention Oscar Yanes - Rovira i Virgili University, Spain

Time	Speaker
10:00- 10:30	Spatial metabolomics in tissues and single cells Theodore Alexandrov - EMBL Heidelberg, Germany
10:30- 11:00	Coffee Break
11:00- 11:15	Selected Short Talk: Identification of proteins on total DNA links the metabolic enzyme AHCY to chromatin Sergi Aranda - Centre for Genomic Regulation, Barcelona Institute of Science and Technology, Spain
11:15- 11:30	Selected Short Talk: Development of ZeNITH a single cells based method for metabolic profiling of human tumor Rafael Argüello, Centre d'Immunologie de Marseille-Luminy, France
11:30- 11:45	Selected Short Talk: Contextualizing chaotic metabolic networks and their regulation Jordan Berg - University of Utah, USA
11:45- 13:30	Lunch in the ATC Foyer
13:30- 17:15	Session 5: Chromatin and Metabolism Chair: Andreas Ladurner - Ludwig Maximilian University of Munich, Germany
13:30- 14:00	Epigenetic underpinnings of metabolic disease heterogeneity John Andrew Pospisilik - Van Andel Research Institute, USA
14:00- 14:30	Selected Short Talk: Model-driven rewiring of cellular metabolism and histone acetylation Sriram Chandrasekaran - University of Michigan, USA

Time	Speaker
14:30- 15:00	Hormone polyagonists as metabolic precision medicines: Discovery, mechanism and clinical validation Matthias Tschöp - Helmholtz Zentrum München, Germany
15:00- 15:30	Coffee Break
15:30- 16:00	Yeast respiratory oscillations are driven by the energetic demands of proteostasis John O'Neill - MRC Laboratory of Molecular Biology, UK
16:00- 16:15	Selected Short Talk: Epigenetic inheritance of lipotoxic cardiomyopathy in Drosophila Maria Clara Guida - Sanford Burnham Prebys Medical Discovery Institute, USA
16:15- 16:30	Selected Short Talk: A Creb3-Like transcription factor regulates feeding behavior through the early secretory machinery genes Haris Khan - Ludwig Maximilians University of Munich, Germany
16:30- 16:45	Selected Short Talk: The INO80 ATP-dependent chromatin remodeller promotes selective autophagy under metabolic stress conditions Manolis Papamichos-Chronakis - Newcastle University, UK
16:45- 17:00	Selected Short Talk: Uncovering metabolic pathways operating in the mammalian nucleus Eleni Kafkia - EMBL Heidelberg, Germany
17:00- 17:15	Flash Talk Session 2: # 62, 118, 138, 140, 178
17:15- 19:00	Poster Session 2 (even numbers)

Time	Speaker
19:00- 21:00	Conference Dinner in the EMBL Canteen
21:00- 24:00	Conference Party with Live Band in the ATC Foyer
21:00, 22:00, 23:00, 0:00	Bus departure

Day 4 - Saturday 23 November 2019

Time	Speaker
09:00- 10:00	Key note Lecture 2 : The Role of Metabolism in Health and Disease Marcia Haigis - Harvard Medical School, USA
10:00- 10:30	Coffee Break
10:30- 12:00	Session 6: Systems analysis of metabolism Chair: Theodore Alexandrov - EMBL Heidelberg, Germany
10:30- 11:00	Enzyme structural states as a new global readout for enzyme functional states Paola Picotti - ETH Zurich, Switzerland
11:00- 11:30	Finding missing links in genotype-phenotype relationship using machine learning Aleksej Zelezniak - Chalmers University of Technology, Sweden

Time	Speaker
11:30- 11:45	Selected Short Talk: Large-scale protein tagging to study protein localization and dynamics of metabolic enzymes and epigenetic modifiers Andreas Reicher - CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, Austria
11:45- 12:00	Selected Short Talk: Coordination of RNA abundance with cell size Scott Berry - University of Zurich, Switzerland
12:00- 12:30	Closing Remarks and Poster Prize
12:30- 13:00	Packed Lunch in ATC Foyer
13:00	Departure to downtown and Frankfurt Airport