

11TH DEVELOPMENTAL BIOLOGY COURSE: From Stem Cells to Morphogenesis

October 12-16, 2020 *** Central European Time (CET)

CET time	Monday, Oct. 12 th	Tuesday, Oct. 13 th	Wednesday, Oct. 14 th	Thursday, Oct. 15 th	Friday, Oct. 16 th				
9:30 – 10:30	*10:00 WELCOMING SESSION	EPIGENETICS Chair: C THIBAUT Deborah BOURC'HIS (Institut Curie, Paris, FR) "Protect or program: the dichotomy of DNA methylation during spermatogenesis"	CELL DIVISION AND MORPHOGENESIS Chair: Y BELAICHE Yohanns BELLAICHE (Institut Curie, Paris, FR) "Shaping Proliferative Epithelial Tissues"	EPIGENETICS Chair: C CARRON Yad GHAVI-HELM (IGFL, Lyon, FR) "Developmental epigenomics"	CELL MECHANICS DURING DEVELOPMENT Chair: J-L M MAITRE Michel LABOUESSE (IBPS, Paris, FR) "Coordinating the morphogenesis of two tissues through forces"				
10:30–11:00	ELEVATOR SPEECHES	BREAK	Project presentation	BREAK	Project presentation				
11:00–12:00		TRANSCRIPTION Chair: C THIBAUT François PARCY "Evolution of flowers and floral regulators" (CNRS, Grenoble, FR)	Jacqueline TABLER (MPI-CBG, Dresden, DE) "Cellular behaviors driving mammalian skull morphogenesis"	DEVELOPMENT OF THE NERVOUS SYSTEM Chair: C CARRON Claudio STERN (UCL, London, UK) "Building a brain: a molecular dissection of neural induction"	Vikas TRIVEDI (EMBL, Barcelona, ES) "Self-organisation in multicellular systems"				
12:00–13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK				
13:30–14:30	EARLY DEVELOPMENT Chair: J-L M MAITRE Bertrand BENZAERAF (CB/CNRSI, Toulouse, FR) "Multi-tissue analysis of axis elongation in vertebrate embryo"	GERM CELLS AND SEX DETERMINATION Chair: C THIBAUT BRUNO HUDRY (IBV, Nice, FR) "A deeper take on our sexual nature: Importance of cellular sex and underlying mechanisms"	SIGNALLING AND MORPHOGENESIS Chair: Y BELAICHE Patrick MÜLLER (FML, Tübingen, DE) "Systems biology of signaling during vertebrate development"	DEVELOPMENT OF THE NERVOUS SYSTEM Chair: C CARRON Roberto MAYOR (UCL, London, UK) "Interplay of chemical and machinal signals drives directional neural crest migration"	CELL MECHANICS DURING DEVELOPMENT Chair: J-L M MAITRE Anne-Cécile REYMANN (IGBMC, Strasbourg, FR) "Actin dynamics and cell mechanics in the early C. elegans development"				
14:30–15:00						BREAK	BREAK	Project presentation	BREAK
15:00–16:00						Carl-Phillipp HEISENBERG (IST, AT) "Rigidity percolation uncovers the structural basis of embryonic tissue phase transitions"	Katja WASSMANN (IBPS, Paris, FR) "Mammalian oocyte meiosis"	Alexis MAIZEL (COS, Heidelberg, DE) "Morphogenesis in plants – may the Force be with you"	DEVELOPMENT OF THE NERVOUS SYSTEM Chair: C CARRON Marie-Laure BAUDET (University of Trento, IT) "Non-coding RNAs: subcellular action in neurons during brain wiring"
16:00–16:30	BREAK								
16:30–17:00	KEYNOTE Chair: J-L M MAITRE Clifford TABIN (Harvard University, US) "Signals and forces patterning the gut smooth muscle"								

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October 19-21, 2020 *** Central European Time (CET)

CET time	Monday, Oct. 19th	Tuesday, Oct. 20th	Wednesday, Oct. 21th
9:30-10:30	Allison BARDIN (Institut Curie, Paris, FR) "Stem cells and tissue homeostasis"	Joo-Hyeon LEE (MRC Cambridge Stem Cell Institute, University of Cambridge, UK) "Stem Cell States, Fates and Niches in Lung Regeneration"	Enrique AMAYA (University of Manchester, UK) "A conserved role for reactive oxygen species during early embryonic development and appendage regeneration"
10:30-11:00	Project presentation	BREAK	BREAK
11:00-12:00	Uri FRANK (National University of Ireland, Galway, IE) "Stem cell mediated regeneration in a cnidarian"	Nicolas RIVRON (IMBA, Austrian Academy of Science, AT) "Self-organising stem cells"	Aziz ABOOBAKER (University of Oxford, UK) "What can we learn from studying planarian regeneration?"
12:00-13:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK
13:30-14:30	Maria Carolina FLORIAN (Program of Regenerative Medicine, IDIBELL, Barcelona, ES) "Ageing of Hematopoietic Stem Cells and of their Niche"	Katharina SONNEN (Hubrecht Institute, Utrecht, NL) "Signaling dynamics in the control of vertebrate mesoderm segmentation"	*14:00 Virginie ORGOZO-COURTIER (IJM, Paris, FR) "The mechanisms underlying the evolution of morphology"
14:30-15:00	BREAK	BREAK	*15:00 BREAK
15:00-16:00	Laurent DAVID (CRTI, Nantes, FR) "Deciphering cell fate decisions during preimplantation development"	Lazaro CENTANIN (COS, Heidelberg, DE) "Post-embryonic stem cells during homeostasis and growth"	*15:30 Patrick LEMAIRE (CNRS-CRBM, Montpellier, FR) "Exploring the Diversity of Tunicate Genomes & Developmental Programmes"
16:00-16:30		Project presentation	Project presentation
16:30-17:00			
17:00-17:30			FINAL REMARKS

STEM CELLS AND ORGANOGENESIS
Chair: A BARDIN

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Chair: A BARDIN

REGENERATION
Chair: M UMBHAUER

EVO-DEVO
Chair: M UMBHAUER