

“Developmental and Cell Biology of the future”

Selected abstracts for Short-talks

Session 1

1/MARELJA Zvonimir: “How lysosomal cystine export maintains autophagy during prolonged starvation”

2/CROZET Flora: “Myosin-X promotes oocyte-somatic cells communication by physical contact, contributing to oocyte developmental potential”

3/BILLARD Bénédicte: “Natural molecular variant enhancing *C. elegans* dauer induction in response to diverse environmental cues”

Session 2

1/RIBIERRE Théo: “Somatic mosaic mTOR pathway gene variants in brain cortical malformations drive the development of pathogenic neural cells and cause epilepsy”

2/ACLOQUE Hervé: « Defining embryonic and extra-embryonic cell populations and their molecular interactions in the pig blastocyst through a single-cell transcriptomic approach »

3/CHAZAUD Claire: « Cell Lineage Differentiation in the mouse Blastocyst: The emergence of the Pluripotent Epiblast”

Session 3

1/ROLLER Maša: “Tissue specific evolution of promoters and enhancers in mammals”

2/MERABET Samir: “Visualizing Hox-dependent regulation of autophagy at the nuclear periphery”

3/BORENSZTEIN Maud: “X-Chromosome reprogramming during embryonic development”

Session 4

1/DAVY Alice: “Eph signaling and one carbon metabolism control the pace of neurogenesis in the developing neocortex”

2/FARCY Sarah: “Cerebral organoids and malformations of cortical development”

3/FLIPPE Lea: “Generation of CD8+ and CD4+ regulatory T cells from human pluripotent stem cells”

Session 5

1/GUIGNARD Léo: “Reconstruction of post implantation mouse development at the single cell level”

2/SELKA Faïçal: “Spatiotemporal atlasing of 3D cellular parameters during leaf morphogenesis”

3/BERTOLIN Giulia: “Analysing mitochondria: how can microscopy help?”

Session 6

1/LEVAYER Romain: « Competition for space induces cell elimination through compaction-driven erk downregulation”

2/GLENTIS Alexandros: “Three-dimensional confinement regulates collective epithelial cell migration”

3/LEGGIO Bruno: “How morphogenesis guides morphogenesis: mechanically-induced long-range coherence in embryonic ascidian epidermis”