



Annual Meeting 2022 of the Basel Stem Cell Network (BSCN)

12.09.2022 (Monday) at 9:30-18:00

Biozentrum Basel, Maurice E. Müller Saal (U1.111)

Program

Welcome by Verdon Taylor, chairman BSCN Steering Committee

BSCN Scientific Presentations:

Chair: Nouraz Ahmed & Timm Schroeder, D-BSSE

Invited speaker: Fiona Doetsch, Biozentrum 9:40 - 10:10
"Stem cell diversity and regulation in the adult brain"

Short presentations 1 & 2: 10:10 – 10:30

Joaquín Navajas Acedo, Biozentrum

"Spatiotemporal emergence of somatosensory neuron diversity"

Fátima Sanchís-Calleja, D-BSSE

"Decoding morphogen-induced patterning of developing human brain organoids"

Invited speaker: Dirk Schübeler, FMI 10:30 – 11:00

"Finding your place: transcription factors as sensors and modifiers of chromatin in stem and differentiated cells"

Short presentations 3 & 4: 11:00 – 11:20

Simon D. Schwarz, DBM

"PARP1 inhibition-mediated DNA damage activates endogenous retroviruses and causes cytotoxicity in embryonic stem cells via active DNA demethylation"

Yumiko K. Kawamura, FMI

"Histone demethylases KDM2A/2B safeguard the oocyte methylome and embryonic development"

Lunch brake 11:30 - 13:00

Poster Session & Sponsors' booths

Chair: Antoine Peters

Invited speaker: Margherita Turco, FMI 13:10 – 13:40

"Trophoblast organoids for modelling placental development in humans"

Short presentations 5 & 6: 13:40 – 14:00

Mansoor Chaaban, DBM

"Is more always better?: Modulating human adipose derived stromal cells chondrogenesis to achieve optimal bone remodeling *in vivo*"

Maëva Luxey, DUW

"Towards a molecular understanding of the crosstalk between muscles and motoneurons and its plasticity in neuromuscular circuit formation"

Invited speaker: Verdon Taylor, DBM

"Notch and Co in the regulation of neural stem cell fate"

14:00 – 14:30

Short presentations 7 & 8:

Nouraiz Ahmed, D-BSSE

"Live single cell quantification of GATA switch dynamics during adult and developmental erythropoiesis identify novel regulatory mechanisms of erythropoiesis"

Evelia Plantier, DBM

"Engineering of standardized hematopoietic stem cell niches to model human hematopoiesis using induced pluripotent stem cells"

14:30 – 14:50

Coffee brake

14:50 – 15:30

Poster Session & Sponsors' booths

Chair: Verdon Taylor, DBM

Bruno Speck Awards 2022:

15:30 – 16:00

Ana C. Delgado, Biozentrum

"Release of stem cells from quiescence reveals gliogenic domains in the adult mouse brain"

Lina Acevedo Rua, DBE & DBM

"Engineered nasal cartilage for the repair of osteoarthritic knee cartilage defects"

Guest Speaker:

Markus Manz, University Hospital Zürich

"Inflamm-ageing of hematopoietic stem cells"

16:00 – 16:45

Concluding remarks by Verdon Taylor, chairman BSCN Steering Committee

Apero

17:00 – 18:00

Registration at bscn@unibas.ch

Recognized by the Veterinäramt Basel-Stadt as "Formation in animal experimentation"

Sponsoring companies:

