



## 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"

14:30 – 14:50

**Evelia Plantier, DBM**

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

**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, 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](mailto:bscn@unibas.ch)**

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

**Sponsoring companies:**

