Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Conference 2022

Tuesday 28 June 2022

S22 Bringing together state-of-the-art quantitative biology and machine learning-based modeling for controlling and predicting cell and cell population phenotype in the context of regenerative medicine - **Room: S4 C (15:30 - 17:00)**

-**Conveners: Jesús Chato-Astrain; Bernd Rolauffs; Yuto Takemoto**

time	[id] title	presenter
15:30	[941] Image-based label-free analysis for quantitative and real-time understanding of cellular status	KATO, Ryuji
15:50	[915] Basics of Cellular and Subcellular Mechanobiology	SCHLUNCK, Günther
16:10	[221] CHONDROCYTE PROLIFERATION IS INFLUENCED MORE BY F-ACTIN DENSITY AND THE MACROSCOPIC TISSUE DISEASE STATE THAN BY CELL SHAPE OR MICROPATTERN GEOMETRY	ROLAUFFS, Bernd
16:20	[228] Morphology-based detection of senescence in expanded mesenchymal stem cells	TAKEMOTO, Yuto
16:30	[230] Using a machine learning-supported approach for assessing and predicting the susceptibility of articular cartilage to mechanical trauma-induced changes in cellularity	SELIG, Mischa
16:40	[231] PREDICTION OF M1, M2A AND M2C MACROPHAGE PHENOTYPES AND THEIR IL-10 PRODUCTION POTENTIAL BASED ON SINGLE CELL MORPHOLOGY AND PROTEIN INTENSITY USING A NOVEL MACHINE-LEARNING BASED APPROACH	POEHLMAN, Logan
16:50	[16] PREDICTION OF MEDICAL DEVICE COATING PROPERTIES VIA MACHINE LEARNING	GRIBOVA, Varvara