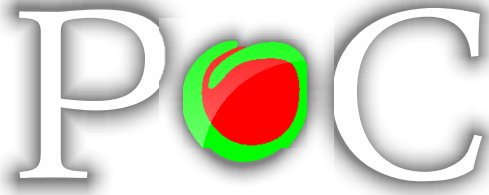




UNIVERSITÄT
LEIPZIG



Poster Session (virtual and onsite)

17:15 – 20:00

- in last name's alphabetical order, *virtual contribution in blue* -

- 1 **Neuronal and Glial Cell Co-culture Organization and Impedance Spectroscopy on Nanocolumnar TiN Films for Lab-on-a-Chip Devices**
ALICE ABEND (Leipzig University, Germany)
- 2 **Magnetically Controlled Micro-Deformation of 3D Tumor Models for Mechanobiological in situ Studies**
DAPHNE O. ASGEIRSSON (ETH Zürich, Switzerland)
- 3 **On the Road to Cellular Digital Twins of in vivo Tumors**
ERIC BEHLE (Jülich Research Centre, Germany)
- 4 **Fatty Tissue As An Modulator Of Cancer Cell Mechanics**
ELIANE BLAUTH (Leipzig University, Germany)
- 5 **Mesenchymal-Epithelial Transition and its Effect on Cell Mechanics and Proliferation in in vitro Cancer Models**
GINA DIMARI (TU Dresden, Germany)
- 6 **Rigid Tumors Contain Soft Cells**
THOMAS FUHS (TU Freiberg, Germany)
- 7 **Studying the Mechanical and Morphological Phenotype of Cancer-Associated Fibroblasts of the Prostate**
ANTJE GARSIDE (TU Dresden, Germany)
- 8 **The Role of Intermediate Filaments in Stress Resistance in 3D Epithelial Structures**
TOM GOLDE (Institute of Bioengineering of Catalonia (IBEC), Spain)
- 9 **Shape and Density Reveal Prognostic Relevance of Potentially Motile Breast Cancer Cells**
PABLO GOTTHEIL (University of Leipzig, Germany)
- 10 **Machine Learning based Parametrization of Large Scale Tumor Simulations**
JULIAN HEROLD (Karlsruhe Institute of Technology, Germany)
- 11 **Skin Epithelial Cells Change their Mechanics and Proliferation upon Snail-Mediated EMT Signalling**
KAMRAN HOSSEINI (TU Dresden, Germany)
- 12 **Inference of Population Structure from Spreading Variants**
GIULIO ISACCHINI (Leipzig University, Germany)
- 13 **Single-Cell Physical Phenotyping of Mechanically Dissociated Tissue Biopsies for Fast Diagnostic Assessment**
MARKÉTA KUBÁNKOVÁ, (Max Planck Institute for the Science of Light & Max-Planck-Zentrum für Physik und Medizin, Erlangen, Germany)
- 14 **Nanotube Scaffolds: Versatile and Customizable Culture Platform for Cells and Tissues**
ASTRID KUPFERER (Leibniz Institute of Surface Engineering (IOM) e.V, Germany)

- 15 **Mapping Tumor Spheroid Mechanics in Dependence of 3D Microenvironment Stiffness and Degradability by Brillouin Microscopy**
VAIBHAV MAHAJAN (TU Dresden, Germany)
- 16 **Application of Large Area Mapping AFM for Automated Structural and Mechanical Analysis of Cells and Tissues in Health and Disease**
TORSTEN MÜLLER (Bruker, Germany)
- 17 **Mechanical Properties of the Premature Lung**
JONAS NAUMANN (Leipzig University, Germany)
- 18 **Influence of Local Anesthetics on the Mechanical Properties of Circulating Ovarian Cancer Cells**
IVONNE NEL (Leipzig University, Medical Center, Germany)
- 19 **Physical Properties of 3D Matrix Regulate Killing Efficiency of Cytotoxic T Cells**
BIN QU (Saarland University, Germany)
- 20 **Changes in Tissue Stiffness and Fluidity Predict Tumor Aggressiveness in vivo**
FRANK SAUER (Leipzig University, Germany)
- 21 **Mechanical Characterization of Electron Beam Modified Collagen Fibers for Biomedical Applications**
FRIEDRICH SCHÜTTE (Leibniz Institute of Surface Engineering (IOM) e.V, Germany)
- 22 **Dissecting the Lateral and Longitudinal Assembly Kinetics of Vimentin with a Dual Wavelength Stopped-Flow Approach**
LOVIS SCHWEEN (University of Erlangen-Nuremberg, Erlangen, Germany)
- 23 **DNA-Based Tools for Biological Systems Modulation**
CARY TUTMARC (Leipzig University, Germany)
- 24 **Distinct F-Actin Networks are Required for Filopodia Motility and Migration of Cancer Cells**
SABINE WINDHORST (University Medical Center Hamburg-Eppendorf, Germany)
- 25 **Yield Stress: A Tipping Point of Cell Unjamming**
XIAOFAN XIE (Leipzig University, Germany)