

Poster Session 1 – Wed, 17 March – 17:15-20:00 h (open end)

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| 1 | Gulden Akcay | Mimicry of ECM Stiffness Gradients in Brain-on-Chip |
| 2 | Christine Arndt | Microengineered Hollow Graphene Tube Systems Generate Conductive Hydrogels with Extremely Low Filler Concentration |
| 3 | Mouhanad Babi | Tuning the Nanotopography and Functionality of 3D-Printed Cellular Scaffolds Through Cellulose Nanocrystal Coatings |
| 4 | Rachel Bender | An Indestructible Tension Probe for Measuring High-Force Mechanical Events in Cells |
| 5 | Eider Berganza Eguiarte | Fabrication of Multiplexed Curved Phospholipid Membrane Platform |
| 6 | Veronika Brumovska | Determination of the Actual Size of Proteins in the Live Cell Plasma Membrane |
| 7 | Ignasi Casanellas | Dynamics of Stem Cell Migration and Condensation on Nanopatterned Adhesive Ligands |
| 8 | Joel Christian | Imaging Membrane Deformation During Nanoparticle Uptake at the Ventral Side |
| 9 | Brendan Deal | Engineering DNA-Functionalized Nanostructures to Bind Nucleic Acid Targets Heteromultivalently with Enhanced Avidity |
| 10 | Yagmur Demircan Yalcin | Biophysical Cues Affect Neural Network Dynamics |
| 11 | Yuxin Duan | Democratizing Mechanobiology with Mechanically Triggered Hybridization Chain Reactions |

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| 12 | Roland Hager | Biomolecule Micropatterning on Different Polymeric Substrates and Its Applicability for Quantitative Fluorescence Microscopy |
| 13 | Ingrid Hartl | Analysis of FGFR3 Signaling Strength Using Micropatterning |
| 14 | Yuesong Hu | Microparticle Molecular Tension Sensors for Mapping Cell Mechanics in Non-Planar Geometries and for High-Throughput Quantification |
| 15 | Martin Humenik | Nanostructured Surfaces Via Self-Assembly of DNA-Spider Silk Conjugates |
| 16 | Nouria Jantz | Micropatterned Arrays of Peptide-Receptive MHC Class I Proteins |
| 17 | Peter Lanzerstorfer | A Visual Immunoprecipitation Assay for Live-Cell Profiling of Cytosolic Protein Complexes on Micropatterned Substrates |
| 18 | Graham Leggett | Its Quantum Biology, Jim, But Not as We Know It |
| 19 | Victoria Levario Diaz | 1D Nanopatterned Integrin Ligand Surface to Evaluate Stick-Slip Dynamics |
| 20 | Ostap Lishchynskyi | Whether Is Impact of the Low Concentration of the CaCO₃ Nanoparticles Embedded in Non-Fouling Temperature-Responsive POEGMA Coatings on Different Cell Lines? |
| 21 | Cristina Lo Giudice | Force-Distance Curve-Based AFM and Single Cell Approaches to Probe Ligand-Receptor Interactions and Mechanics |
| 22 | Chih-Hao Lu | Membrane Curvature Regulates the Spatial Distribution of the Glycocalyx Proteins |

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**Ensemble Measurement of TCR-pMHC Force
Lifetime by DNA Hybridization Kinetics**