

Poster Session I

Tuesday, September 5, 2017, 18:00-19:00

P1 Justyna Bobrowska, Poland

AFM and ToF SIMS investigation of melanoma elasticity and surface properties

P2 Guido Caluori, Czech Republic

A non-invasive electromechanical system to study cardiac excitation-contraction coupling

P3 Aitziber Eleta Lopez, Spain

Hydration-dependent buckling and local defects: The molecular surface structure of a plant virus

P4 Benedict Fels, Germany

Transient receptor potential channel 1 (TRPC1) mediated mechano-signaling in murine pancreatic stellate cells

P5 Cecile Feuille, Belgium

Molecular interactions and inhibition of the staphylococcal biofilm-forming protein SdrC

P6 Alessandra Griffo, Finland

Single molecule force spectroscopy study on modular resilin fusion protein

P7 Bastian Hartman, Germany

An optical fiber-based force sensor for the detection of cartilage degeneration: comparing sensor sensitivity to atomic force microscopy

P8 Ignasi Jorba, Spain

Multiscale Nonlinear Mechanics of Lung Extracellular Matrix

P9 Patrick Mesquida, Austria

Pitfalls of practical KPFM-phase-tuning leading to polarity reversal on biological samples

P10 Arkadiusz Koziół, Poland

In vitro enzymatic-induced DASP nanostructure reorganization

P11 Frank Lafont, France

AFM Automation for Single-Cell Scanning

P12 Martina Maase, Germany

Adequate endothelial response to functional EnNaC-inhibition as a marker for endothelial (dys-)function?

P13 Katarzyna Majzner, Poland

Uptake of fatty acids by a single endothelial cell investigated by Raman spectroscopy supported by AFM mechanical mapping

P14 Daria Malakhova, Czech Republic

Cytoskeletal Structures and Elasticity Measures in Human MSCs

P15 Barbara Orzechowska, Poland

The elasticity of single cells as a disease marker determined by atomic force microscopy

P16 Filippo Pierini, Poland

Development and applications of atomic force microscopy combined with optical tweezers (AFM/OT)

P17 Marco Girasole, Italy

“RBC’s ageing from morphology and membrane structure: an AFM study combined with Raman and Differential Scanning Calorimetry”

P18 Andreas Rohatschek, Austria

Experimental mechanics of collagen molecules

P19 Christina Rösch , Germany

On the Way to Single Molecule Adhesion Forces of a Multidomain Protein by Force Spectroscopy

P20 Christian Spengler, Germany

Bacterial contact formation and breaking: revealing their contact area & contact characteristics on different types of surfaces

P21 Karolina Szafrńska, Poland

Primary vs Immortalized – AFM study of Liver Sinusoidal Endothelial Cells

P22 Attila Gergely Végh , Hungary

Melanoma – endothelial de-adhesion dynamics: crucial step towards brain metastasis