**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 Feuillie, 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 Kozioł, 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 Szafańska, 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