

List of Posters – Session 1

|     | Surname         | First Name    | Poster Title   |
|-----|-----------------|---------------|--|
| 1.  | Almquist        | Ben           | Biomimetic 'Stealth' Probes: Enabling Tunable Interfacing to Lipid Bilayer Cores   |
| 2.  | Alvarez         | Marta         | Two-photon induced photocleavage for monolayers  |
| 3.  | Bally           | Marta         | Phospholipid Vesicles Assays for Optical Biosensing Applications   |
| 4.  | Barbick         | Julie         | Micron-scale Patterning of RGDS and VEGF Presentation Accelerates Endothelial Tubule Formation on Poly(ethylene Glycol) Diacrylate Hydrogels           |
| 5.  | Benesch         | Johan         | Competitive protein adsorption on self-assembled monolayers  |
| 6.  | Bilek           | Marcela       | Towards biomimetic medical implants: Surfaces for linker free covalent binding of functional biomolecules  |
| 7.  | Boudou          | Thomas        | Physico-chemical and mechanical characterization of polyelectrolyte multilayer films: Influence on cell adhesion.                                      |
| 8.  | Bulwan          | Maria         | Chitosan-based nanocoatings for immunoisolation and antifouling applications   |
| 9.  | Bystrenova      | Eva           | DNA adsorption measured with ultra-thin film organic field effect transistors  |
| 10. | Charnley        | Mirren        | Three-dimensional microwell array for single cell analysis   |
| 11. | Chelli          | Beatrice      | Multiple length-scale patterning of extracellular matrix proteins for controlled cell growth   |
| 12. | Chen            | Junying       | Surface biomimetic modification of titanium oxide film by biomolecular immobilization for antithrombogenic and endothelialization                      |
| 13. | Chrzanowski     | Wojciech      | Modulation of Cytoskeleton Formation on Polymers by Titanium-Phosphate Glass Filler  |
| 14. | Crouzier        | Thomas        | Layer-by-layer films as a reservoir for biomimetic matrix bounded delivery of BMP-2  |
| 15. | Czolkos         | Ilija         | Title: Controllable Lipid Films for a Two-dimensional Reaction Platform for Supramolecular Nano-Assembly   |
| 16. | Del Campo       | Aránzazu      | Active surfaces with tunable adhesion  |
| 17. | Demarche        | Sophie        | Nanopatterned lipid bilayers for investigating membrane proteins   |
| 18. | Diéguez         | Lorena        | Immobilization of nanovesicles carrying Olfactory Receptors and detection via Optical Spectroscopy   |
| 19. | Dubrovín        | Evgeniy       | Development of affine surfaces for detection of bacterial fragments from solutions using AFM   |
| 20. | Edvardsson      | Malin         | The action of IdeS on immobilised IgG antibodies – a combined QCM-D and Reflectometry study  |
| 21. | Fabre           | Roxane        | Stable tethered lipid bilayers on zirconium phosphonate modified surfaces  |
| 22. | Fong            | Wenmei Eileen | Artificial Extracellular Matrix Proteins with Enhanced Biological Activity   |
| 23. | Gabi            | Michael       | Electrically controlled cell growth for the assembly of neuron networks with controlled topology   |
| 24. | Gonzalez-Martin | M. Luisa      | New short-term interfacial response between bacteria and Ti6Al4V activated by UV radiation   |
| 25. | Hall            | Heike         | Imaging cell-to-materials interfaces on 3D-fibrous scaffolds   |
| 26. | Hill            | Katalin       | Interaction of antitubercular drug-conjugates with lipid monolayer studied by SFG and tensiometry  |
| 27. | Hook            | Andrew Leslie | High throughput microarrays for discovery of polymers resistant to bacterial colonisation: Polymer microarray design, fabrication and characterisation |
| 28. | Horvath         | Robert        | Cells on optical waveguides  |
| 29. | Iosin           | Monica        | Cross-Linked Protein Nanostructures Fabricated by Two-Photons Laser Induced Photochemistry   |
| 30. | Jeong           | Jae Sun       | In-situ AFM Imaging of Single DNA Molecule on Electrode Substrate  |

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| 31. | Jonsson                    | Magnus P.      | Nanoplasmonic Biosensing of Artificial Cell Membranes   |
| 32. | Jönsson                    | Peter          | Title: Analyzing Diffusive and Convective Behavior in Lipid Bilayers using Photobleaching   |
| 33. | Juskova                    | Petra          | Lithographically defined metal surfaces; modifications and applications   |
| 34. | Kehr                       | Seda           | Cell Growth on Zeolite L Monolayer, Transfer of Cell and Zeolite L Crystals by Softlithography  |
| 35. | Kilinc                     | Devrim         | Axotomy-induced Distal Degeneration Studied in Neuronal Lab-on-Chip Device  |
| 36. | Klein                      | Katharina      | “Screening of different cell phenotypes using physical measurements: Adhesion dynamics and migration on nanostructured, biofunctionalized surfaces                            |
| 37. | Kluger                     | Petra          | Induction of morphological and physiological reactions of primary human keratinocytes and fibroblasts by bio-inspired nano- or microstructured surfaces                       |
| 38. | Kozłowska                  | Justyna        | Characterization of the surface properties of hydroxyapatite /collagen/poly(vinyl pyrrolidone)/ composites for hard tissue repair   |
| 39. | Kunding                    | Andreas Hjarne | How bilayer curvatures modulate molecular reaction efficiencies in a membrane junction  |
| 40. | Lamers                     | Edwin          | Title: Nanogrooved interfaces and osteoblast-like cell response   |
| 41. | Landoulsi                  | Jessem         | Study of growth, structure, and mechanical properties of collagen based-multilayers film  |
| 42. | Larsen                     | Jannik         | Compositional heterogeneities between single small unilamellar vesicles prepared by lipid rehydration   |
| 43. | Lee                        | Gil            | Chemical and Mechanical Signalling in Neuron Growth Cone Guidance   |
| 44. | Lee                        | Tzer-Min       | The effect of substratum topography on hFOB cells behavior and initial cell adhesion evaluated by cytodetacher  |
| 45. | Leppiniemi                 | Jenni          | Bifunctional avidin with covalently binding ligand  |
| 46. | Leung                      | Bonnie         | Soft X-ray Spectromicroscopy of Protein Interactions with Model Biomaterials  |
| 47. | Li                         | Zhen           | Surface modification of zeolite L nanocrystals and their intracellular uptake activities  |
| 48. | Lohr                       | Christina      | Quenching of fluorescently labeled lipids embedded into the outer leaflet of single small unilamellar vesicles  |
| 49. | Ma                         | Yujie          | Photophysical Studies of Fluorescent Proteins Encapsulated in Mesoporous Silica MCM-41  |
| 50. | Maeda                      | Mizuo          | Unique propeties of soft interface made from DNA double strand brush  |
| 51. | Maniura                    | Katharina      | Studying the fate of single stem cells and their plasticity in engineered 3D microenvironments  |
| 52. | Marel                      | Anna-Kristina  | Modifiable Cell Assays for Cell Synchronisation and Cell Cycle Control  |
| 53. | Mattotti                   | Marta          | Neural Cells Responce on Biopolymers with Different Surface Properties  |
| 54. | Mc Evoy                    | Kevin          | Improving quantification of proteins at interfaces through a better and practical modeling of quartz crystal microbalance response  |
| 55. | McMurray                   | Rebecca        | A Temporal Differentiation Study of Skeletal Stem Cells Cultured on Disordered Nanopits   |
| 56. | McNamara                   | Laura          | Mechanotransduction: A Study of Chromosome, mRNA, Protein and Whole-Cell Effects Using Topography as a Non-Invasive Mechanoinducer  |
| 57. | Mironi-Harpaz<br>Kesselman | Iris<br>Dafna  | Optimizing a biomaterial scaffold for enhanced endothelial cell survival: controlling cell-matrix interactions using a composite scaffold with fibrillar and amorphous phases |