

Wednesday, July 3rd

8:30-9:00	<i>Registration</i>
9:00-9:20	<i>Welcome address</i>
	Session 1 Cancer: treatment and detection.
9:20-10:00	Invited talk by Elena Ishow (Nantes Université) “Photoactive organic nanoparticles as tunable actors for theranostics”
10:00-10:20	Axelle AUBERT “Towards a development of electro-apta-sensors to detect biomarkers of inflammation”
10:20-10:40	Wilfrid BOIREAU “Multiplex characterization and quantification of extracellular vesicles in multiple myeloma”
10:40-11:00	<i>Coffee break & posters</i>
	Session 2 Cell & protein / material interactions
11:00-11:20	Eve RANDRIANARIDERA “Development of an in vitro foreign body reaction model to evaluate silicone influence on fibrinogen conformation and macrophage polarization”
11:20-11:40	Guillaume LEKS “Evaluation of a new pediatric prosthesis made of thermoplastic elastomeric poly(urethane) (TPU) functionalized with polydopamine and type I collagen”
11:40-12:00	Marie-Ly CHAPON “Role of substrate curvature in cell migration and tissue morphogenesis”
12:00-12:20	Charlotte VENDRELY “Interactions of a protein inspired from a barnacle adhesive cement with different material surfaces”
12:20-12:30	Erik NILEBÄCK (Quantum Design) “Introducing QSense Omni – a new era for QCM-D analysis”
12:30-14:30	<i>Lunch & posters & demo</i>

	Session 3 Materials and Light
14:30-15:10	Invited talk by Christophe Moser (EPFL) “Volumetric Bioprinting: a new tool for producing artificial tissue models”
15:10-15:30	Hippolyte DURAND “Development of an integrated biofunctionalized silicon photonic platform for allergen immuno-detection in food matrices”
15:30-15:50	Angélique SIMON-MASSERON “Zeolite-based composites for biomedical applications”
15:50-16:00	Grégory MICHEL (ZEISS) “3D Imaging Technology: what & why?”
16:00-16:20	<i>Coffee break & posters</i>
	Session 4 Nano-objects & nano-structuration
16:20-16:40	Laurent VONNA “Macrophage internalization dynamics of adsorbed submicron and nanoscale silica particles: insights for biomedical coatings”
16:40-17:00	Dahlia SAAD “1D and 3D-AFM characterization of liquid/polymer brushes (PAA, PEO)/gold interfaces”
17:00-17:20	Jilong LI “Lysozyme-responsive core-shell nanoparticles formed by pH-drive and transglutaminase cross-linking and their properties”
17:20-17:40	Milan TOLEDO NAUTO “Non-covalent nanobody biofunctionalization of organic electrochemical transistor (OECT) for the specific detection of chlordecone”
17:40-18:00	Philippe STEMPFLE “Optimization of a new venous stenosis treatment self- expanding nitinol stent using a multi-scale tribological approach from catheter to the veins”
18:00-18:10	Véronique SCHLOUPT (DATAPHYSICS INSTRUMENTS) “How to analyse surfaces in regard to their electrical charge in a liquid solution: Zeta potential measurements in practice”
18:10-19:30	<i>Social event</i>
19:30	<i>Evening at Lerchenberg</i>

Thursday, July 4th

	Session 5 Bacteria/material interactions
9:00-9:40	Invited talk by Régis Grimaud (UPPA) “Biofilm formation: a microbial strategy to assimilate particular substrate”
9:40-10:00	Thibaut ZWINGELSTEIN “Development of a specific microfluidic bio-interface for the detection of pathogenic bacteria in the agro-food industry”
10:00-10:20	Capucine LOTH “Ion triggered self-assembly of antibacterial Fmoc-based tripeptide: physical chemistry and MD simulation”
10:20-11:00	<i>Coffee break & posters</i>
11:00-11:20	Marie CHAMPION “Hydrophilic antiadhesive coating to prevent marine organisms' colonization”
11:20-11:40	Lydia FELLAH “Study of the antibacterial impact of photocatalytic surfaces in the marine environment”
11:40-12:00	Corinne NARDIN “Polymer coatings to prevent microbially influenced corrosion”
12:00-12:20	Gwenaël CORBEL “Water disinfection with Cu(OH) ₂ nanorods”
12:20-12:40	Lydie VIAU “Antibacterial surfaces prepared by electropolymerization of pyrrole-tailed imidazolium ionic liquids”
12:40-13:00	<i>Awards & Conclusion</i>
13:00	Lunch (box)