

Wednesday, July 3rd

8:30-9:00	Registration
9:00-9:20	Welcome address
	Session 1
	Cancer: treatment and detection.
	Chair : Fouzia Boulmedais
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	Coffee break & posters
	Session 2
	Cell & protein / material interactions
	Chair : Luc Vellutini
	Eve RANDRIANARIDERA
11:00-11:20	"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	Lunch & posters & demo

7th Plenary Days of GDR B2i - July 3rd-4th, 2024 - Mulhouse (France)



	Session 3
	Materials and Light
	Chair : Yoann Roupioz
14:30-15:10	Invited talk by Christophe Moser (EPFL)
	"Volumetric Bioprinting: a new tool for producing artificial tissue models"
	Hippolyte DURAND
15:10-15:30	"Development of an integrated biofunctionalized silicon photonic platform for allergen immuno-detection in food matrices"
15.20 15.50	Angélique SIMON-MASSERON
15:30-15:50	"Zeolite-based composites for biomedical applications"
15,50,16,00	Grégory MICHEL (ZEISS)
15:50-16:00	"3D Imaging Technology: what & why?"
16:00-16:20	Coffee break & posters
	Session 4
	Nano-objects & nano-structuration
	Chair : Charlotte Vendrely
	Laurent VONNA
16:20-16:40	"Macrophage internalization dynamics of adsorbed submicron and nanoscale silica particles: insights for biomedical coatings"
	Dahlia SAAD
16:40-17:00	"1D and 3D-AFM characterization of liquid/polymer brushes (PAA, PEO)/gold interfaces"
	Jilong LI
17:00-17:20	"Lysozyme-responsive core-shell nanoparticles formed by pH-drive and transglutaminase cross-linking and their properties"
	Milan TOLEDO NAUTO
17:20-17:40	"Non-covalent nanobody biofunctionalization of organic electrochemical transistor (OECT) for the specific detection of chlordecone"
	Philippe STEMPFLE
17:40-18:00	"Optimization of a new venous stenosis treatment self- expanding nitinol stent using a multi-scale tribological approach from catheter to the veins"
	Véronique SCHLOUPT (DATAPHYSICS INSTRUMENTS)
18:00-18:10	"How to analyse surfaces in regard to their electrical charge in a liquid solution:
10.00 10.10	Zeta potential measurements in practice"
18:10-19:30	Zeta potential measurements in practice" Social event



Thursday, July 4th

	Session 5
	Bacteria/material interactions
	Chair : Karine Glinel
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"
	Capucine LOTH
10:00-10:20	"Ion triggered self-assembly of antibacterial Fmoc-based tripeptide: physical chemistry and MD simulation"
10:20-10:50	Coffee break & posters
	Chair : Vincent Humblot
	Marie CHAMPION
10:50-11:10	"Hydrophilic antiadhesive coating to prevent marine organisms' colonization"
11:10-11:30	Lylia FELLAH
	"Study of the antibacterial impact of photocatalytic surfaces in the marine environment"
11.20 11.50	Corinne NARDIN
11:30-11:50	"Polymer coatings to prevent microbially influenced corrosion"
11.50 12.10	Gwenaël CORBEL
11:50-12:10	"Water disinfection with Cu(OH)2 nanorods"
12:10-12:30	Lydie VIAU
	"Antibacterial surfaces prepared by electropolymerization of pyrrole-tailed imidazolium ionic liquids"
12:30-12:50	Ahmed HAMRAOUI
	"Challenges in modulating surface energy to optimize axonal growth"
12:50-13:00	Awards & Conclusion
13:00	Lunch (box)

















