

Wednesday, 5 th February 2020 - Microsymposium UDM2 Venue: IBS Seminar Room		
8:15	Registration	
8:45	Introduction to the microsymposium UDM2	
Session I - Design and Applications - Chair: Giulia Veronesi		
8:50 – 9:20	Keynote talk: Dissecting the Intracellular Fate of Indium Phosphide Quantum Dots in vivo Using Synchrotron XRF and XANES	Claudia Tortiglione <i>CNR - Istituto di Scienze Applicate e Sistemi Intelligenti, Italy</i>
9:20 – 9:40	Advanced magnetic spectroscopies for the fine characterization of bimagnetic nanoparticles and ferrofluids	Amélie Juhin <i>IMPMC Paris, CNRS, France</i>
9:40 – 10:00	Structural evolution of supported lipid bilayers intercalated with quantum dots	Magdalena Wlodek <i>Polish Academy of Sciences, Poland</i>
10:00 – 10:20	Multi-modal scanning microscopy for nanomaterials	Michael Stuckelberger <i>DESY, Germany</i>
10:20 – 10:50	<i>Coffee break</i>	
Session II - Nanomaterials and Human Health - Chair: Sylvain Bohic		
10:50 – 11:20	Keynote talk: Nanowire technology and toxicity	Laurent Charlet <i>ISTerre, UGA, France</i>
11:20 – 11:40	Asbestos bodies in human lung tissue: toward a definitive characterization	Fabrizio Bardelli <i>CNR - Nanotec, Italy</i>
11:40 – 12:00	Understanding nanoparticle cellular entry: A physicochemical perspective	Wuge Briscoe <i>University of Bristol, UK</i>
12:00 – 12:20	Synchrotron-based imaging reveals silver ions trafficking within hepatocytes exposed to silver nanoparticles	Aurélien Deniaud <i>Université Grenoble Alpes, France</i>
12:20 – 12:50	Keynote talk: Synchrotron imaging of nano-particles released from implants in human and an outlook on new tools to investigate the associated tissue response in 4D	Bernard Hesse <i>Xploraytion GmbH, Berlin Germany</i>
12:50 – 14:00	<i>Lunch at the EPN campus restaurant</i>	
Session III - Fate in the environment and disposal - Chair: Hiram Castillo-Michel		
14:00 – 14:30	Keynote talk: X-ray imaging and X-Ray Absorption Spectroscopy applied to Environmental Nanotechnologies	Mélanie Auffan <i>CEREGE, CNRS, France</i>
14:30 – 14:50	Investigating the fate of TiO ₂ nanoparticles in soils	Geraldine Sarret <i>ISTerre, UGA, France</i>
14:50 – 15:10	Determining the influence of time, soil properties and the plant–soil interface on silver nanomaterial speciation using x-ray absorption spectroscopy	Sam Harrison <i>UK Centre for Ecology & Hydrology, UK</i>
15:10 – 15:30	Advanced techniques to investigate the internalization mechanism of TiO ₂ NPs in the roots grown in a biosolid-amended agricultural soil	Eliana Tassi <i>Research Institute on Terrestrial Ecosystems, CNR Pisa, Italy</i>
15:30 – 15:50	Nanoscience Foundries and Fine Analysis (NFFA): the widest range of tools for research at the nanoscale	Cecile Girardot <i>ESRF, France</i>
15:50	Discussion - End of meeting	