

Wednesday, 7th February 2018 - Microsymposium UDM3
Venue: IBS seminar room

08:30 - 09:00	Welcome	
	Session I: Structural Biology - Chair: Gabriele Giachin	
09:00 - 09:30	Keynote talk: <i>A structural App for APP in Alzheimer Disease.</i>	Klemens Wild Heidelberg University, Germany
09:30 - 10:00	Keynote talk: <i>Molecular mechanisms of AMPA Glutamate Receptors: insights from structural and functional studies.</i>	Beatriz Herguedas Francés MRC Cambridge, UK
10:00 - 10:20	<i>Structure of well-ordered Aβ(1-42) amyloid fibrils.</i>	Henrike Heise Research Centre Jülich, Germany
10:20 - 10:40	<i>Coffee break</i>	
10:40 - 11:00	<i>SRGAP truncations confer human brain advantages and vulnerabilities.</i>	Yarden Opatowsky Bar-Ilan University, Ramat Gan, Israel
11:00 - 11:20	<i>Lipid Amide Signaling in Metabolic and Neurological Disorders.</i>	Gianpiero Garau Istituto Italiano di Tecnologia, Pisa, Italy
	Session II: nano X-ray fluorescence - Chair: Marina Mapelli	
11:20 - 11:50	Keynote talk: <i>Imaging bio-metals in neurons with X-ray nanobeams.</i>	Richard Ortega CENBG, CNRS, University of Bordeaux, France
11:50 - 12:10	<i>Nanotomography and X-ray fluorescence microscopy for quantitative iron concentration map in inflamed cells.</i>	Chiara Gramaccioni Univeristà La Sapienza, Rome, Italy
12:10 - 12:30	<i>Smart biomimetic nanostructured surfaces as a tool for synchrotron μXRD and μFTIR characterization of neurodegenerative peptides.</i>	Angelo Accardo LAAS-CNRS, Toulouse, France
12:30 - 14:00	<i>Lunch</i>	
14:00 - 14:20	<i>FTIR Microscopy study of Dense and Diffuse Alzheimer Plaques.</i>	Núria Benseny-Cases ALBA synchrotron, Barcelona, Spain
14:20 - 14:40	<i>Investigating Gadolinium-Depositions in EAE mouse brain tissue after MRI contrast agent application.</i>	Bernhard Hesse ESRF, Grenoble, France
	Session III: X-ray tomography and novel radiation therapies - Chair: Paola Coan	
14:40 - 15:10	Keynote talk: <i>X-ray Phase Contrast Tomography for the investigation of Central Nervous System and neurodegenerative diseases.</i>	Alessia Cedola CNR, Rome, Italy
15:10 - 15:30	<i>Synchrotron Generated Cortical and Hippocampal transections: a novel experimental tool for the treatment of Epilepsy.</i>	Alberto Bravin ESRF, Grenoble, France

15:30 - 15:50	<i>Micro-fractionated brain cancer high dose radiosurgery observed using 3D X-ray phase contrast CT.</i>	Giacomo Barbone Ludwig Maximilians University, Garching, Germany
15:50 - 16:15	<i>Coffee break</i>	
16:15 - 16:30	<i>Non-invasive imaging of therapeutic cells transplanted in the inflamed rat brain by spectral photon counting computed tomography (SPCCT) and Synchrotron k-edge imaging.</i>	Chloe Dumot Université Lyon 1, Oullins, France
16:30 - 16:50	<i>Cortical horizontal connections as key players of seizure generation in absence epilepsy.</i>	Antoine Depaulis INSERM – UJF, GIN, Grenoble, France
	Closing remarks	