Chemical Complexity & Biology

January, 19th - 20th 2015

Program

Day 1: Monday, January 19th

08.30 – 09.00	*Registration*	
09.00 – 09.15	Welcome	**Marc-André Delsuc**
09.15 - 10.15	**Opening lecture** Towards adaptive chemistry - constitutional dynamic chemistry and networks	**Jean-Marie Lehn**
10.15 – 10.45	Theoretical and experimental challenges in the Complex Systems Digital Campus	**Paul Bourgine**
10.45– 11.15	*Coffee break*	
11.15 – 11.55	Molecular interactions with the bacterial cell wall by liquid state, standard and DNP solid state NMR	**Jean-Pierre Simorre**
11.55 – 12.35	Parallel tuning of activation and repression in intrinsic disorder-mediated allostery	**Vincent J. Hilser**
12.35– 14.00	*Lunch buffet and poster session*	
14.00 – 14.40	Proximal methods: tools for solving inverse problems in a large scale. Application to biophysics measurements processing	**Emilie Chouzenoux**
14.40 – 15.00	Monitoring protein-ligand interactions in human carbonic anhydrase by long-range pseudo contact shift NMR	**Daniel Häussinger**
15.00 - 15.40	2D FT-ICR MS: from a laboratory curiosity to an analytical tool	**Christian Rolando**
15.40– 16.10	*Coffee break*	
16.10 – 16.50	How scarce sequence elements control the function of single ß-thymosin/WH2 intrinsically disordered domains in actin assembly	**Carine van Heijenoort**
16.50 – 17.10	m1A modification in tRNA	**Carine Tisné**
17.10 – 17.30	Prion quasi-species and molecular basis of auto-perpetuation of Prion structural information	**Human Rezaei**

Day 2: Tuesday, January 20th

09.00 – 09.40	Dr. Ehrich's magic bullet: is perfect anticancer drug possible?	**Roman A. Zubarev**
09.40 – 10.20	Identifying the conditions needed for stability and complexity in living systems	**Robert Pascal**
10.20 – 10.40	Study of hetero-association between tetracycline and caffeine by means of diffusion-ordered NMR spectroscopy	**Anatoly Buchelnikov**
10.40 – 11.10	*Coffee break*	
11.10 – 11.50	Unnatural Information-containing Macromolecules	**Jean-François Lutz**
11.50 – 12.10	Chemical cross-linking and mass spectrometry to determine the interaction network of protein complexes	**Nha-Thi Nguyen-Huynh**
12.10 – 12.30	Sensing of analytes using fluorescent amphiphiles	**Ziya Kostereli**
12.30 – 14.00	*Lunch buffet and poster session*	
14.00 – 14.40	Gene regulatory network inference using structural biological a priori	**Camille Couprie**
14.40 – 15.00	Solid-state NMR as an emerging technique to determine supramolecular interactions in biological and chemical complexes	**Antoine Loquet**
15.00 – 15.30	*Coffee break*	
15.30 – 15.50	Membrane structure and interactions of the amino-terminus of huntingtin and its regulatory role in poly-glutamine aggregation	**Burkhard Bechinger**
15.50 – 16.30	Kinetic mechanism of RNA-mediated genetic regulation	**Philippe Dumas**

End of the symposium