



JUNIOR CONFERENCE Computational approaches to nucleic acid and protein structure & function

8 Nov 2017 Orsay (France)

DNA Dynamics and Gene Expression (Chair: Arach Goldar)	
9:15	Keynote presentation: François Major. Artificial microRNA engineering.
10:05	Improved Promoter Sequence Models for de novo Transcription Factor Binding Site Prediction in Bacteria Ibrahim Sultan, Pierre Nicolas, Sophie Schbath, Vincent Fromion
10:25	Pause café
10:40	A numerical model for the spatio-temporal program of DNA replication in <i>Xenopus</i> early embryos Ciardo Diletta, Kathrin Marheineke, Arach Goldar
11:00	Filtering techniques for feature reduction in k-mer analysis Nguyen Ha, Daniel Gautheret
11:20	Dynamics of nucleotide entry into the active site of the hepatitis C virus RNA polymerase Kaouther Ben Ouirane
Proteins and Protein Complexes (Chair: Anne Lopes)	
11:40	Coupling natural and artificial coevolution for the structural prediction of complexes Aravindan Arun Nadaradjane, Seydou Traoré, Jessica Andreani, Raphael Guérois
12:00	Lunch
14:00	Keynote presentation: Alessandra Carbone. Learning about protein-protein interactions at the residue resolution.
14:50	La modélisation structurale en 3D : outil innovant pour la compréhension de l'expression des antigènes de groupe sanguin Aline Floch, France Pirenne, Christophe Tournamille, Alexandre de Brevem
15:10	Application of robotics algorithms for the full description of the conformational landscape of cyclized peptides Maud Jusot, Dirk Stratmann, Marc Vaisset, Eric Ngo, Matthias Lerbinger, Théo Torcq, Jacques Chomilier, Juan Cortes
15:30	Pause café
15:45	Studying conservation of interaction energy landscapes across structural homologs through cross-docking calculations Hugo Schweke, Sophie Sacquin-Mora, Marie-Hélène Mucchielli-Giorgi, Anne Lopes
RNA Structure (chair: Daniel Gautheret)	

16:05	Curating pseudoknotted RFAM families using sequence structure alignment wei Wang, Matthieu Barba, Philippe Rinaudo, Alain Denise, Yann Ponty
16:25	An integrative approach for predicting the RNA secondary structure for the HIV-1 Gag UTR using probing data Afaf Saaidi, Yann Ponty, bruno sargueil
16:45	Prediction de pseudonoeuds avec la programmation linéaire bi-objective Audrey Legendre

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