

3rd EMBO Workshop on Computational and Structural Biology

Friday, 3rd of March

10:00	<i>bus from Warsaw (CeNT, Banacha 2c) to Serock (Nicola Conference Centre)</i>
11:30 – 11:35	<i>Opening Speech</i>
11:35 – 12:20	Eric Rawdon, Introduction to the study of entanglement in nature
12:20 – 12:40	Paweł Dąbrowski-Tumański, Two pathways of proteins with Gordian (52) knot folding
12:40 – 13:00	Wanda Niemyska, Gauss Linking Number reveals new looks in entangled proteins!
13:00 – 14:00	<i>Lunch</i>
14:00 – 14:45	Adam Kubas, Theoretical approaches for understanding gas-processing metalloenzymes: the case of [FeFe]-hydrogenases
14:45 – 15:05	Agata Perlińska, Role of the magnesium in a knotted methyltransferase
15:05 – 15:25	Vasilina Zayats, Modeling of yeast ion translocation protein Trk1 using combined theoretical and experimental approaches
15:25 – 15:45	Aleksandra Jarmolińska, Would evolution stop membrane proteins from knotting?
15:45 – 16:00	<i>Coffee break</i>
16:00 – 16:45	Maria Górna, How do IFITs fit together in defense against viruses?
16:45 – 17:05	Matthew Merski, The RAP domain: structure, function, evolution and bioinformatics
17:05 – 17:25	Marcin Ziemniak, Structural basis of mRNA-cap recognition by Dcp1/Dcp2 complex
17:25 – 17:55	Gregor Weiss, The influence of hydrophobicity on kinetics of ligand-receptor association
17:55 – 18:10	<i>Coffee break</i>
18:10 – 18:30	Gaja Klaudel, Generic trace in proteins
18:30 – 18:50	Aleksandra Gierut, PyLasso - plugin to detect and analyze lasso type of entanglement in (bio) polymers
19:50 – 19:10	Marta Wiśniewska, A water-mediated networks involved in activation process of protein kinases
19:20 – 20:20	<i>Dinner</i>

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Saturday, 4th of March

08:00 – 08:55	<i>Breakfast</i>
09:00 – 09:45	Sebastian Glatt, Lost in translation – revisiting the tRNA wobble base
09:45 – 10:05	Monika Gaik, Uncovering molecular mechanisms of translational control with structural biology
10:05 – 10:25	Marta Smejda, The role of regulatory proteins in tRNA modifications in human cells
10:25 – 10:45	Anna Salerno-Kochan, Structural insights into the role of RNA-binding proteins in stem cell maintenance and differentiation
10:45 – 11:05	Karol Zakrzewski, Structural insights into the role of binding regulatory factors to Elongator subunit in the context of tRNA modification process
11:05 – 11:20	<i>Coffee break</i>
11:20 – 12:05	Bartosz Trzaskowski, Computer-aided drug design, a tale of two successful (?) stories
12:05 – 12:25	Joanna Macnar, The influence of the QM- calculated ligands' charge distribution on the docking results
12:25 – 12:45	Rafał Jakubowski, Toward a better life: in silico study of transthyretin related amyloidosis
12:45 – 13:05	Jan Kutner, TBA
13:10 – 14:10	<i>Lunch</i>
14:30 – 19:00	<i>Paintball</i>
19:30	<i>Workshop Dinner</i>

Sunday, 5th of March

08:30 – 09:45	<i>Breakfast</i>
10:00	<i>bus from Serock (Nicole Conference Centre) to Warsaw (CeNT, Banacha 2c)</i>