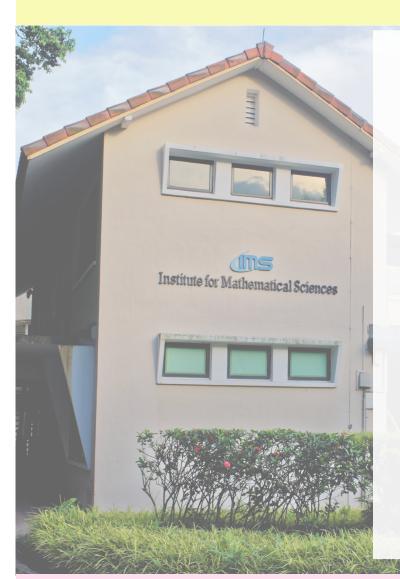
Computational Approaches to the Analysis of Biomolecular Sequences, Structures and Their Functions and Applications to Biotechnology and Clinical Data Studies

(26 - 27 Mar 2020)



ORGANIZING COMMITTEE

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Igor N. Berezovsky Bioinformatics Institute (BII) - A*Star

Frank Eisenhaber Bioinformatics Institute (BII) - A*Star

Lars Nordenskiöld Nanyang Technological University

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Kwok Pui Choi National University of Singapore

Louxin Zhang National University of Singapore

Computational Approaches to the Analysis of Biomolecular Sequences, Structures and Their Functions and Applications to Biotechnology and Clinical Data Studies

(23 - 27 Mar 2020)

conducted via Zoom

Thursday, 26 Mar 2020			
Time	Title	Speaker	
1100	Chair: Lars Nordenskiöld, Nanyang Technological University, Singapore		
1100 - 1200	Multiscale modelling approaches to large systems in biology: understanding infectious diseases and the host response	Peter J. Bond Bioinformatics Institute - A*Star, Singapore	
1200 - 1330	Lunch Break		
1330	Chair: Chair: Igor N. Berezovsky, Bioinformatics Institute - A*Star, Singapore		
1330 - 1430	Multiscale modeling of macromolecular systems by structure-based coarse-graining	Alexander Lyubartsev Stockholm University, Sweden	
1430 - 1500	Coffee Break		
1500 - 1600	Whole viral particle metastability and dynamics by HDX mass spectrometry	Ganesh Srinivasan Anand National University of Singapore, Singapore	
1600 - 1615	To bind or not to bind: IgM versus IgG in Pertuzumab and Trastuzumab	Firdaus Samsudin Bioinformatics Institute - A*Star, Singapore	

Friday, 27 Mar 2020			
Time	Title	Speaker	
0930	Chair: Frank Eisenhaber, Bioinformatics Institute - A*Star, Singapore		
0930 - 1030	Amino acid sequence insertions or deletions inside Mycobacterium tuberculosis's respiratory complexes provide fitness for the pathogen and new pathways for TB-drug development"	Gerhard Grüber Nanyang Technological University, Singapore	
1030 - 1100	Coffee Break		
1100 - 1200	A genome assembly quality assessment measure that integrates contiguity, completeness, and correctness	Lim Soon Wong National University of Singapore, Singapore	

Friday, 27 Mar 2020			
Time	Title	Speaker	
1230 - 1330	Lunch Break		
1330	Chair: Frank Eisenhaber, Bioinformatics Institute - A*Star, Singapore		
1330 - 1430	Tutorial: Reinforcement learning and its biomedical applications	Mahsa Paknezhad Bioinformatics Institute - A*Star, Singapore	
1430 - 1500	Coffee Break		
1500 - 1600	Tutorial: Computational imaging with deep learning: biomedical focus	Kaicheng Liang Bioinformatics Institute - A*Star, Singapore	
1600 - 1615	Sequence similarity networks: a working model for defining the 'known-unknowns' of gene function in microbiomes	Rohan Williams National University of Singapore, Singapore	