CCS International Symposium 2020

12th Symposium on Discovery, Fusion, Creation of New Knowledge by Multidisciplinary Computational Sciences

October 6, 2020

https://www.ccs.tsukuba.ac.jp/sympo20201006en/

Parallel Session 5: Life Science and Chemistry

Time: 16:20 – 17:37 (JST)

Place: https://zoom.us/j/93547549001

Convenor: Mitsuo Shoji (CCS, University of Tsukuba)

Time	Speaker	Title
(5 + 2 min. each)	(Affiliation)	
16:20 - 16:27	Ryuhei Harada	Developments of Computational Methods
	(Univ. of Tsukuba)	for Drug Design Based on PaCS-MD
16:27 - 16:34	Hiroaki Saito	In silico molecular design of
	(Hokuriku University)	transmembrane peptide induces lipid
		flipping
16:34 - 16:41	Norifumi Yamamoto	Theoretical Study on the Aggregation-
	(Chiba Institute of	Induced Emission
	Technology)	
16:41 - 16:48	Kazutomo Kawaguchi	Resting membrane potential and ion
	(Kanazawa University)	distribution by all-atom molecular
		dynamics simulations
16:48 - 16:55	Hiroaki Kumada	Development of a core technologies for
	(Univ. of Tsukuba)	multi-modal treatment planning system
		with the high-speed and high-precision
		Monte Carlo dose calculation engine
16:55 - 17:02	Mitsuo Shoji	Theoretical elucidations of chemical
	(Univ. of Tsukuba)	reactions by using large-scale molecular
		simulations
17:02 - 17:09	Yuki Nagata (Max	Accessing the accuracy of density
	Planck Institute for	functional theory through structure and
	Polymer Research)	dynamics of the water–air interface
17:09 - 17:16	Megumi Oya	Automatic target segmentation for whole
	(Juntendo University)	breast irradiation using the 3D-UNet and

		its gradient-weighted class activation
		mapping analysis
17.16 - 17.23	Yasuteru Shigeta	Theoretical studies on membrane
	(Univ. of Tsukuba)	permeability using molecular dynamics
		simulations
17.23 - 17.30	Hiroko Kondo	Molecular dynamics study of an effect of
	(Kitami Institute of	mutations on the structure of the anti-HIV
	Technology)	neutralizing antibody PG16
17:30 - 17:37	Hiromitsu Shimoyama	Atomistic Detailed Free-energy Landscape
	(Kitasato University)	of Intrinsically Disordered Protein studied
		by Multi-scale Divide-and-conquer
		Molecular Dynamics Simulation