

IPR x RIKEN BDR Symposium 2023

Dive into Data of Life

February 21(Tue) – 22(Wed), 2023

Day-1: 2/21 (Tue)	
13:00-13:15	Opening Remarks OKADA Mariko (IPR) NISHIDA Eisuke (RIKEN BDR) ONOE Takao (Osaka Univ.)
Session 1	Design Principles for Life Chair: NAKAGAWA Atsushi (IPR)
13:15-13:45	KOGA Nobuyasu (IPR) Design principles for proteins and exploration of novel ones
13:45-14:15	MIYAZAKI Makito (Kyoto Univ./RIKEN BDR (2023.4.1-)) Reconstitution of cytoskeletal structures and cell functions
14:15-14:45	Break / Casual Discussion
Session 2	Cornerstone for Data-driven Research Chair: TAJI Makoto (RIKEN BDR)
14:45-15:05	KURISU Genji (IPR) Protein Data Bank (PDB): The Single Global Macromolecular Structure Archive
15:05-15:25	MIZUGUCHI Kenji (IPR) Data integration for drug discovery
15:25-15:55	ONAMI Shuichi (RIKEN BDR/RIKEN-IH/ RIKEN CPR) Image data-driven modeling of developmental systems and open bioimaging DX
15:55-16:15	Break / Casual Discussion
16:45-18:00	IPR Facility Tour (Limited for the members of RIKEN BDR) KATO Takayuki (IPR), MIYANOIRI Yohei (IPR)
18:00-20:00	Networking (Limited for the members of IPR and RIKEN BDR)

Day-2: 2/22 (Wed)	
Session 2	Control of Biological Networks Chair: SHIROUZU Mikako (RIKEN BDR)
9:15-9:45	EHARA Haruhiko (RIKEN BDR) Structural analysis of nucleosomal transcription complexes from cryo-EM data
9:45-10:15	ARIMORI Takao (IPR) Engineered antibody fragment 'Fv-clasp' for various research applications
10:15-10:45	KITAJIMA Tomoya (RIKEN BDR) Cell biological mechanisms of chromosome segregation errors in oocytes
10:45-11:15	Break / Casual Discussion
Session 4	Elucidation of Biomolecular Dynamics Chair: HARADA Yoshie (IPR)
11:15-11:45	TIWARI Sandhya (IPR) Protein-protein interactions as described by elastic network models
11:45-12:15	IMAI Shunsuke (RIKEN BDR) Structural equilibrium underlying ligand-dependent activation of beta2-adrenoreceptor
12:15-12:45	KISHIKAWA Jun-ichi (IPR) Structural analysis of prokaryotic V/A-type ATP synthase
13:00-13:15	Closing Remarks KOYASU Shigeo (RIKEN) HOJO Hironobu (IPR)