

PROGRAM

November 30, 2010

9:00	-	9:10	Opening Remarks
		Chair	Masahide Terazima
9:10	-	9:50	L01 R.J.Dwayne Miller "Making the Molecular Movie": First Frames
9:50	-	10:30	L02 Martin Gruebele Fluctuations of protein function and dynamics in living cells and organisms
10:30	-	10:50	Break
		Chair	Fumio Hirata
10:50	-	11:30	L03 Hirofumi Sato THEORIES OF FLUCTUATIONS: SOLVATION AND MOLECULAR STRUCTURE
11:30	-	12:10	L04 Ryo Kitahara NMR CHARACTERIZATION OF HIGH-ENERGY STATE OF UBIQUITIN AND POLY-UBIQUITIN
12:10	-	13:40	Lunch
13:40	-	15:50	Poster Session I (Odd Poster Numbers)
		Chair	Yuko Okamoto
16:00	-	16:40	L05 Gerhard Hummer Molecules in motion: from enzyme catalysis to multiprotein assemblies
16:40	-	17:20	L06 Shinichi Tate Protein structural dynamics change induced by distal loop mutation
17:20	-	18:00	L07 Kiyohiko Igarashi High-speed atomic force microscopy visualizes processive movement of cellulases on crystalline cellulose
18:30	-	21:00	Banquet(Hotel Piazza Biwako)

December 1, 2010

	Chair	Mikio Kataoka
9:00 - 9:40	L08 Irit Sagi	Synchronized structural kinetics and solvent dynamics at enzyme catalytic cleft mediate catalysis
9:40 - 10:20	L09 Martin Weik	The coupling between hydration-water and protein dynamics as assessed by neutron scattering and perdeuteration
10:20 - 10:40		Break
	Chair	Ryuichi Ueoka
10:40 - 11:20	L10 Sihyun Ham	Role of Water in Protein Function
11:20 - 12:00	L11 Ryota Iino	Single-molecule studies on the fluctuation and function of a rotary motor protein ATP synthase
12:00 - 13:40		Lunch
13:40 - 15:50		Poster Session II (Even Poster Numbers)
	Chair	Kunihiro Kuwajima
16:00 - 16:40	L12 Fang Huang	Detecting heterogeneity of biological systems with single-molecule fluorescence
16:40 - 17:20	L13 Motoshi Suzuki	An approach to reveal the functional interaction between genetic fluctuation and lung cancer
17:20 - 18:00	L14 Fumio Hirata	Molecular Recognition in Biological Functions Revealed by Statistical mechanics of Molecular Liquids
18:00 - 18:10		Closing Remarks