

PROGRAM

Wednesday, December 5, 2012

9:00-9:10		Opening Remarks by Masahide TERAZIMA
		Chair : Shigehiko Hayashi
9:10-9:50	L01	R. J. Dwayne MILLER (University of Hamburg, Germany and University of Toronto, Canada) “New Sources Light the Way: The Chemists' Gendanken Experiment Enters the Lab Frame”
9:50-10:30	L02	Koichi KATO (Okazaki Institute for Integrative Bioscience, Japan) “NMR characterization of conformational fluctuations of oligosaccharides and glycoconjugates”
10:30-11:00		Coffee Break
		Chair : Akio Kitao
11:00-11:40	L03	Gregory A. VOTH (The University of Chicago, USA) “Multiscale Theory and Simulation of Biomolecular Systems: The Essential Role of Fluctuations”
11:40-12:20	L04	Yuko OKAMOTO (Nagoya University, Japan) “Structural fluctuations of proteins in folding, unfolding, and ligand docking studied by generalized-ensemble simulations”
12:20-13:40		Lunch
13:40-15:40		Poster Session 1 (Odd Poster Number)
		Chair : Munehito Arai
15:50-16:30	L05	Takahiro HOHSAKA (Japan Advanced Institute of Science and Technology, Japan) “Site-specific incorporation of fluorescent nonnatural amino acids into proteins and its application to fluorescence analysis of proteins”
		Chair: Koh Takeuchi
16:30-16:50	L06	Junpei YUASA (Nara Institute of Science and Technology, Japan) “Analysis of circularly polarized luminescence of proteins labeled with europium complexes”
16:50-17:10	L07	Kazumasa SAKURAI (Osaka University, Japan) “Relationship between polypeptides' amyloidogenicities and their dynamics”
17:10-17:30	L08	Tomonao INOBE (University of Toyama, Japan) “Fluctuation-mediated regulation of the protein degradation by the proteasome”
18:00-		Banquet

Thursday, December 6, 2012

Chair : Masahide Terazima

9:00-9:40 L09 **Philip A. ANFINRUD** (National Institute of Health, USA)
“Picosecond Photobiology: Watching a Signaling Protein Function in Real Time via Time-Resolved X-ray Diffraction”

9:40-10:20 L10 **Kevin H. GARDNER** (UT Southwestern Medical Center, USA)
“Environmentally-triggered structural and dynamic changes in sensory proteins”

10:20-10:40 Coffee Break

Chair : Daizo Hamada

10:40-11:20 L11 **Francesco BEMPORAD** (University of Florence, Italy)
“Fluctuations between catalysis and misfolding: the case of the acylphosphatase from *Sulfolobus solfataricus*”

11:20-12:00 L12 **Ryuichi UEOKA** (Sojo University, Japan)
“Membrane-targeted Nanotherapy with Hybrid Liposomes for Cancer Cells Leading to Apoptosis”

12:00-13:10 Lunch

13:10-15:10 Poster Session 2 (Even Poster Number)

Chair: Fumihiro Motojima

15:20-16:00 L13 **Kunihiro KUWAJIMA** (Okazaki Institute for Integrative Bioscience, Japan)
“Structural fluctuations and functional expression of the chaperonin complexes”

16:00-16:40 L14 **Peter TOMPA** (Vrije Universiteit Brussel, Belgium)
“Structure and function of intrinsically disordered chaperones”

Chair : Mineyuki Mizuguchi

16:40-17:20 L15 **Mikio KATAOKA** (Nara Institute of Science and Technology, Japan)
“Structure, Dynamics and Function of Staphylococcal Nuclease”

17:20 Closing Remarks by Masahide TERAZIMA
