

# Program

**Saturday, January 7, 2012**

9:00-9:10		Opening Remarks: Masahide Terazima
Chair: <b>Masahide Terazima</b>		
9:10-9:50	L01	<b>R. J. Dwayne Miller</b> (Centre for Free Electron Laser Science, DESY, Germany, and University of Toronto, Canada) "Making the Molecular Movie": First Frames....Coming Soon with REGAE Musik
9:50-10:30	L02	<b>Weontae Lee</b> (Yonsei University, Korea) Structural Biology of Disease-Related Proteins: Structure, Function and Dynamics
10:30-10:50		Coffee Break
Chair: <b>Koichi Kato</b>		
10:50-11:30	L03	<b>Kazuki Terauchi</b> (Ritsumeikan University, Japan) The Cyanobacterial Circadian Oscillator Composed of Three Kai Proteins
11:30-12:10	L04	<b>Andreas Stadler</b> (Research Center Jülich, Germany) Macromolecular and Water Dynamics in Red Blood Cells
12:10-13:40		Lunch
13:40-15:40		Poster Session I (Odd Poster Numbers)
15:40-15:50		Coffee Break
Chair: <b>Yumiko Ohashi</b>		
15:50-16:10	L05	<b>Kumiko Hayashi</b> (Tohoku University, Japan) Non-equilibrium Statistical Mechanics for Fluctuations in a Cell
16:10-16:30	L06	<b>Kunihiko Ishii</b> (RIKEN, Japan) Detection of Microsecond Molecular Fluctuations through Fluorescence Lifetime Measurement
Chair: <b>Kazumasa Sakurai</b>		
16:30-16:50	L07	<b>Koh Takeuchi</b> (AIST, Japan) NMR Analysis of Functional Fluctuation in Large Molecular Weight Protein
16:50-17:10	L08	<b>Fumihito Motojima</b> (Kyoto Sangyo University, Japan) Chaperonin Changes Protein Folding by Regulation of Hydrophobic Interaction
Chair: <b>Takahiro Hohsaka</b>		
17:10-17:50	L09	<b>François-Xavier Gallat</b> (Institut de Biologie Structurale, France) Dynamical Coupling of Intrinsically Disordered Proteins and Their Hydration Water: Comparison to Folded Soluble and Membrane Proteins
18:40-20:40		Banquet at Hotel Nikko Nara

## Sunday, January 8, 2012

			Chair: <b>Fumio Hirata</b>
9:00-9:40	L10	<b>Akio Kitao</b> (The University of Tokyo, Japan) Finding Function-Relevant Dynamics in Proteins	
9:40-10:20	L11	<b>Emanuele Paci</b> (University of Leeds, UK) Towards a Description of Fluctuations and Dynamical Changes in Proteins from Molecular Simulation and Experimental Measurements	
10:20-10:30 Coffee Break			
10:30-12:30 Poster Session II (Even Poster Numbers)			
12:30-14:00 Lunch			
Public Lecture			Chair: <b>Mikio Kataoka</b>
14:00-14:10		Introduction: Ryuichi Ueoka	
14:10-15:20	PL	<b>Thomas R. Cech</b> (Colorado University, USA) The Biology, Chemistry and Physics of RNA Nano-machines	
15:20-15:40 Coffee Break			
			Chair: <b>Kunihiro Kuwajima</b>
15:40-16:20	L12	<b>Yoko Matsumoto</b> (Sojo University, Japan) Membrane-Targeted Therapy with Hybrid Liposomes in Relation to Fluctuation and Apoptosis	
16:20-17:00	L13	<b>Roland Winter</b> (TU Dortmund University, Germany) Using Pressure Perturbation for Studying Conformational and Functional Substates of Proteins	
17:00-17:10		Closing Remarks: Masahide Terazima	