

OSAKA UNIVERSITY  
MEXT Open Research Facility Promotion Program

IPR Seminar

Date : Dec 19-20, 2014

Venue : Lecture hall, Institute for Protein Research, Osaka University

**Dec 19 (Fri), 2014**

**- The 11th Japan-Korea Bilateral Symposium on Biological NMR -**

- 9:00-9:10** Opening remark Toshimichi Fujiwara (Osaka Univ)  
**9:10-9:40** Developments of NMR Facilities at Institute for Protein Research Toshimichi Fujiwara (Osaka Univ)  
**9:40-10:10** Structural study of the periplasmic domain of OmpA from *Acinetobacter baumannii*  
Young-Ho Jeon (Korea Univ)  
**10:10-10:40** Heme oxygenase-2 activity regulated by the C-terminal intrinsically disordered region  
Kenji Sugase (Suntory)  
**10:40-11:00** Structure-based functional identification of *Helicobacter pylori* HP0268 as a bifunctional enzyme with DNA  
nicking and Rnase activities Ki-Young Lee (Seoul National Univ)  
**11:00-11:30** Switching the activity of functional RNA in response to K<sup>+</sup> and quantitative NMR  
Masato Katahira (Kyoto Univ)  
**11:30-13:00** (Lunch Break)  
**13:00-13:20** Metabolic effects of heavy metals on living organisms using NMR spectroscopy  
Siwon Kim (Pusan National Univ)  
**13:20-13:40** The dynamic peptide recognition and stabilization mechanism of Human Leukocyte Antigen B\*35:01  
Saeko Yanaka (Suntory)  
**13:40-14:00** Structural insight into the interaction between Hox and HMGB1 Hyun-Hwi Kim (Seoul National Univ)  
**14:00-14:30** Cooperativity of ligand-binding observed in the protein functions including signal transduction  
Takahisa IKEGAMI (Yokohama City Univ)  
**14:30-15:00** Structural overview of client interaction in Hsp90 complex and application of inhibitor discovery  
Sung-Jean Park (Gachon Univ)  
**15:00-15:30** (Coffee Break)  
**15:30-16:00** Finely-tuned intermolecular interactions for protein function Young-Ho Lee (Osaka Univ)  
**16:00-16:30** Polymorphism of collagen triple helix structure revealed by <sup>19</sup>F NMR Tadayasu Ohkubo (Osaka Univ)  
**16:30-17:00** Structure and molecular interaction of Aux/IAA17 in auxin-induced transcriptional regulation  
Jeong-Yong Suh (Seoul National Univ)  
**17:00-17:30** Enigmatic behaviors of polyubiquitin chains in vitro and in cells Masahiro Shirakawa (Kyoto Univ)  
**17:30-19:30** (Banquet, free)

**Dec 20 (Sat), 2014**

**- International NMR Symposium on Pharmaceutical NMR -**

**Invited speakers:**

**10:00-12:00**

Hidehito Tochio (Kyoto Univ), Min-Duk Seo (Ajou Univ), Tomoyasu Aizawa (Hokkaido Univ), Hidekazu Hiroaki (Nagoya Univ)

**13:30-15:00**

Yoshihiro Kobashigawa (Kumamoto Univ), Chojiro Kojima (Osaka Univ), Hideo Takahashi (Yokohama City Univ)

**15:30-17:00**

Takanori Kigawa (RIKEN), Yoshifumi Nishimura (Yokohama City Univ), Bong-Jin Lee (Seoul National Univ)

**【Organizers】**

Toshimichi Fujiwara (Osaka Univ), Chojiro Kojima (Osaka Univ), Bong-Jin Lee (Seoul National Univ)

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