

Open up a new era of structural biology with advanced NMR study

Date : NOVEMBER 19-20, 2019

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

Day 1; Nov 19, 2019

13:20-13:40 Opening remarks

Yohei Miyanoiri (Osaka Univ.)

13:40-15:10 Session 1

Multi-state protein structure determination by integrated analysis of several NMR data sets

Tepei Ikeya (Tokyo Met. Univ.)

Observing the conformational multiplicity of the cellular proteins associated with their biological functions in living cells by in-cell NMR spectroscopy

Hiromasa Yagi (RIKEN)

Structural and functional study of the G-quadruplex anti-prion RNA aptamer and in-cell NMR of nucleic acids

Takashi Nagata (Kyoto Univ.)

15:10-15:40 Coffee Break

15:40-17:40 Session 2

Applications of paramagnetic lanthanide ions in NMR and ESR

Tomohide Saio (Hokkaido Univ.)

Functional conformational equilibrium in multidrug binding transcription factors

Koh Takeuchi (AIST)

NMR methods for large molecular weight systems:

Exploring the uncharted territories in the landscape of spin dynamics **Haribabu Arthanari (Harvard Med. Sch.)**

18:00 - Banquet

Day 2; Nov 20, 2019

9:30-11:00 Session 3

Elucidation of Fibrillation Mechanism of ALS-Related Protein SOD1

Kenji Sugase (Kyoto Univ.)

Sensitivity enhancement of carbon direct-detection NMR by acquiring two FIDs in a single scan

Kyoko Furuita (Osaka Univ.)

PRE, R_2 dispersion, H/D exchange under high pressure: How does pressure affect protein structure and dynamics?

Ryo Kitahara (Ritsumeikan Univ.)

11:00-11:20 Coffee Break

11:20-12:50 Session 4

Elucidation of heterochromatin formation mechanism by the phosphorylated HP1 α N-terminal disordered region

Ayako Furukawa (Yokohama City Univ.)

Phase Separation in Neuronal Synapses

Mingjie Zhang (Hong Kong Univ. Sci &Tech.)

12:50-12:55 Closing remarks

Koh Takeuchi (AIST)

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