

The 8th International Symposium on Drug Discovery and Design by NMR

Supported by Yokohama NMR Association

Period: August 26 (Mon) – 27 (Tue), 2024

Venue: RIKEN Yokohama Institute Main Lecture Hall (Koryuto Hall)

Access: <http://www.yokohama.riken.jp/english/access/index.html>

Program

<August 26 (Mon), 2024>

10:00-10:10 **Opening address: Hiroki Matsuo** (Policy Adviser to the Cabinet)

Chairperson: Ei-ichiro Suzuki (Kihara Memorial Yokohama Foundation)

10:10-11:00 **Peter Wright** (The Scripps)

Transthyretin amyloidosis: Mapping the transthyretin aggregation landscape by NMR.

11:00-11:30 **Tomohide Saio** (Tokushima Univ.)

Mechanistic insight into concerted action of a chaperone complex.

11:30-12:00 **Hideo Takahashi** (YCU)

NMR analysis for the proton releasing mechanism of a light-driven membrane protein.

12:00-12:30 **Takanori Kigawa** (RIKEN)

Molecular observation in the native cellular environment by NMR.

12:30-13:30 **Lunch**

Chairperson: Chiaki Nishimura (Teikyo Heisei Univ.)

13:30-14:20 **Tatiana Kutateladze** (University of Colorado School of Medicine)

Structural mechanisms of epigenetic regulation.

14:20-14:50 **Yoshifumi Nishimura** (YCU)

Histone tail cross talks in a nucleosome.

14:50-15:40 **Jane Dyson** (The Scripps)

Disorder Rules: Transcription Factors.

15:40-16:00 **Intermission**

Chairperson: Takahisa Ikegami (YCU)

16:00-16:30 **Hanaho Kano** (Daiichi Sankyo Co., Ltd.)

How computational chemistry can contribute to SBDD with NMR data.

16:30-17:00 **Saeko Yanaka** (Tokyo Tech)

Biophysical characterization of dynamic structures and interactions of immunoglobulin G glycoproteins as therapeutic antibodies.

17:00-17:50 **Christian Griesinger** (Max-Planck Institute)

Small molecules triggering bacterial signal transduction and slowing neurodegeneration.

18:30-20:30 **Banquet at Yone-sushi** (Fees: 7,000 JPY)

<August 27 (Tue), 2024>

Chairperson: Hideo Akutsu (YCU)

9:30-10:20 **Christina Hilty** (Texas A&M Univ.)

Biomolecular Interactions Studied by Parahydrogen Polarization in Homogeneous and Heterogeneous Media.

10:20-10:50 **Makoto Negoro** (Osaka Univ.)

Dissolution triplet dynamic nuclear polarization and its application to protein-ligand interaction analyses.

Chairperson: Tsuyoshi Konuma (YCU)

10:50-11:20 **Kenji Sugase** (Kyoto Univ.)

NMR study of α -synuclein amyloid fibril formation and inhibition.

11:20-11:50 **Koh Takeuchi** (Univ. Tokyo)

Affinity-directed substrate/H⁺ antiport of a MATE transporter.

11:50-12:40 **Wolfgang Jahnke** (Novartis)

New applications of NMR in drug discovery research.

12:40-13:40 **Lunch**

Chairperson: Arata Saso (Asahi Kasei Pharma)

13:40-14:30 **Juli Feigon** (UCLA)

Structural biology of telomerase mechanism and interactions at telomeres.

14:30-15:00 **Shunsuke Imai** (RIKEN)

Dynamically regulated two-site interaction of viral RNA to capture host translation initiation factor.

15:00-15:30 **Masato Katahira** (Kyoto Univ.)

In-Cell NMR of Nucleic Acids and Inhibition of Cytidine-Deamination of APOBEC by HIV Vif Complex

15:30-15:50 **Intermission**

Chairperson: Hiroyuki Hanzawa (Daiichi-Sankyo Co., Ltd.)

15:50-16:40 **Mitsuhiko Ikura** (Univ. Toronto)

Targeting the untargetable: RAS in cancer.

16:40-17:30 **Gerhard Wagner** (Harvard)

Elucidating the mechanisms of cancer metastases.

17:30-17:40 **Closing**

■Registration fees: Free for active members, 5,000 JPY per person for non-active members.

■Banquet fees: 7,000 JPY per person.

Chairman: Yoshifumi Nishimura (Yokohama NMR Association)

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