

The 5th International Symposium on Dynamical Ordering of Biomolecular Systems for Creation of Integrated Functions

January 21-22, 2017

The University of Tokyo, Komaba Campus, Tokyo, Japan

CONTENTS

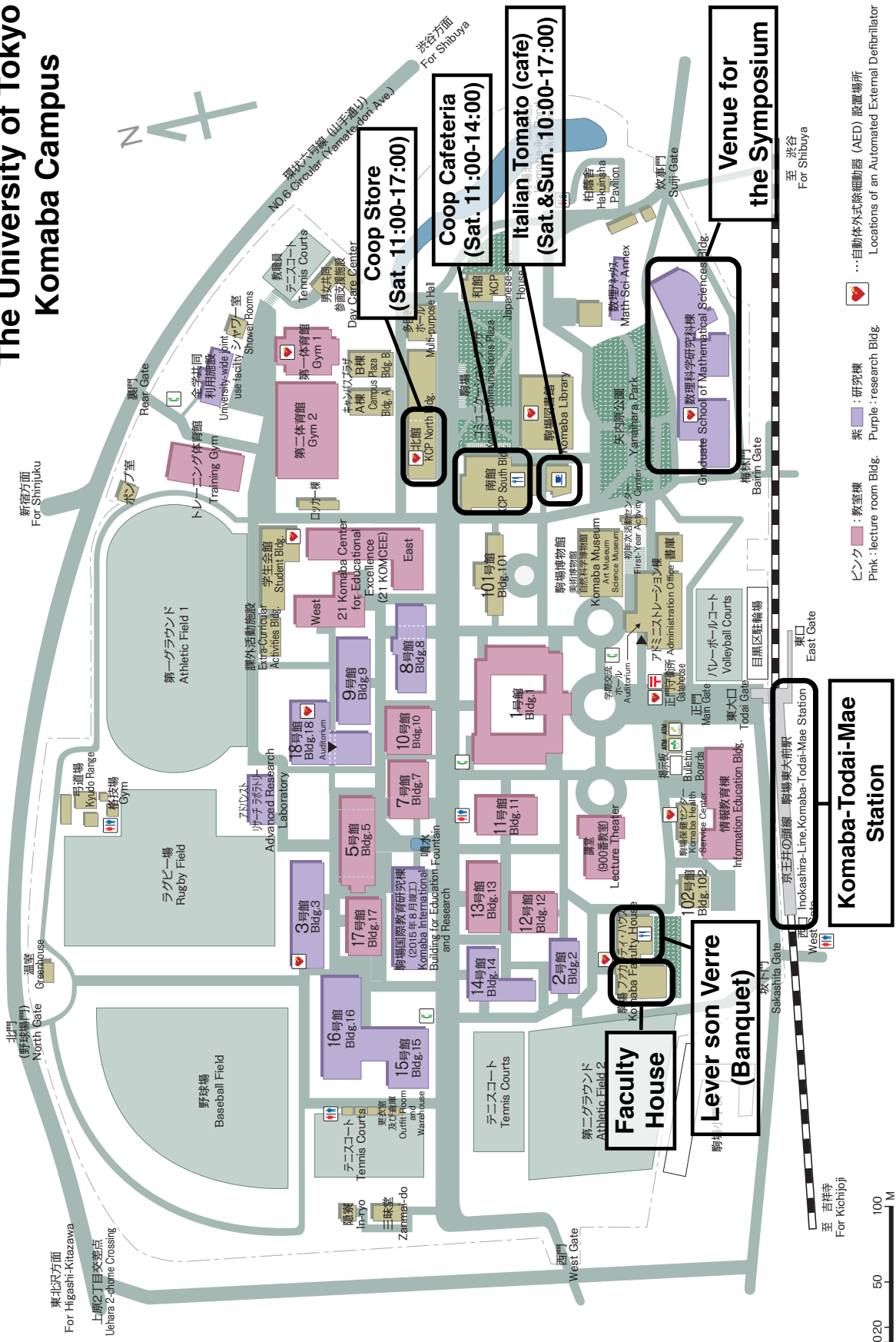
Campus Map	1
Program	2
List of Posters	5
Abstracts —Invited Lectures— ...	25
Abstracts —Posters—	39

Organizer:

Shuichi Hiraoka (The University of Tokyo)

Supported by Grant-in-Aid for Scientific Research on Innovative Areas from the Ministry of Education,
Culture, Sports, Science and Technology of Japan

The University of Tokyo Komaba Campus



PROGRAM

Saturday, January 21, 2017

9:00-9:10 Opening Remarks by Koichi Kato

Chair : Kazunori Sugiyasu

9:10-9:50 L01 **Ilme Schlichting** (Max Planck Institute for Medical Research)

“Myoglobin-CO Dissociation: Challenges and Insights”

9:50-10:20 L02 **Daisuke Suzuki** (Shinshu University)

“Artificial Polymeric Microhydrogels toward Autonomous Soft Materials”

10:20-10:50 Coffee Break

Chair : Masahiro Higashi

10:50-11:30 L03 **Robert Grosse** (University of Marburg)

“Formin and Function in Cellular Actin Assembly”

11:30-12:00 L04 **Masanori Tachikawa** (Yokohama City University)

“Molecular Dynamics Study on Substituent and Solvent Effects for Nanocube Formed with Gear-shaped Amphiphile Molecules”

12:00-12:40 Poster Preview (only poster prize candidates)

12:40-13:00 Group Photo

13:00-14:30 Lunch

14:30-16:30 Poster Session 1 (Odd Poster Number)

Chair : Susumu Uchiyama

16:30-17:10 L05 **Christian Griesinger** (Max Planck Institute for Biophysical Chemistry)

“NMR Based Structural Biology In Immunity and Neurodegeneration/Protection”

17:10-18:10 Panel Discussion

18:30-20:30 Banquet

Sunday, January 22, 2017

Chair : Hiroyuki Miyake

9:10-9:50 L06 **Jonathan R. Nitschke** (University of Cambridge)
“Transformative Cages and Luminous Chains: Functional Systems through
Subcomponent Self-Assembly”

9:50-10:20 L07 **Ryota Iino** (Okazaki Institute for Integrative Bioscience)
“Single-Molecule Dynamics of Natural and Engineered Molecular Motors”

10:20-10:50 Coffee Break

Chair : Hiroyoshi Matsumura

10:50-11:30 L08 **Bernard R. Brooks** (National Institutes of Health)
“Recent Advances in Multi-Scale Methods for Examining Free Energies and
Macromolecular Mechanisms”

11:30-12:00 L09 **Eri Chatani** (Kobe University)
“Nucleation Dynamics in Amyloid Formation As Investigated by the Analysis of
Prefibrillar Intermediates”

12:00-12:15 L10 **Shingo Fukuda** (University of California)
“Direct Observation of Dynamics of Photosynthetic Complexes on Grana
Membranes by High-Speed Atomic Force Microscopy”

12:15-12:30 L11 **Yoshitake Sakae** (Nagoya University)
“Conformational Analysis of Oligosaccharides by Self-Guided Langevin
Dynamics Simulation”

12:30-14:00 Lunch

14:00-16:00 Poster Session 2 (Even Poster Number)

16:00 Closing Remarks by Koichi Kato

Poster Sessions

Date

Poster Session 1: 14:30-16:30, Saturday, January 21

Odd Poster Numbers (P001, P003, P005 ... P105)

Poster Session 2: 14:00-16:00, Sunday, January 22

Even Poster Numbers (P002, P004, P006 ... P104)

- All posters should be put on the boards by 14:30 on Saturday, January 21, and be removed between 16:00 and 16:30 on Sunday, January 22.
- Presenting authors are requested to stay with their posters during the session time.

Banquet

Date

18:30-, Saturday, January 21

Place

Lever son Verre, Komaba