

4th Japanese-Spanish Symposium on Organic Synthesis

Detailed Program

25 September, 2025 – Obaku Plaza Kihada Hall, Uji Campus, Kyoto University

10:00-10:40 Reception

10:40-10:50 Welcome – Prof. Takashi Ooi

Chair – Prof. Takashi Ooi

10:50-11:20 **Lecture 1 (L1: Prof. Jose L. Vicario)**

“Cyclobutanes in Enantioselective Strain Release-Driven Reactions. From Ring Expansion to Axially Chiral Molecules”

11:20-11:50 **Lecture 2 (L2: Prof. Shinsuke Inagi)**

“Post-Functionalization of Poly(methacrylate)s by Photoredox-Catalyzed Phosphonylation”

11:50-12:20 **Lecture 3 (L3: Prof. Rubén Martín)**

“Ni-catalyzed Functionalization of sp^3 C–H Bonds”

12:20-13:20 Lunch break

Chair – Prof. Masahiro Terada

13:20-13:35 **Lecture Y1 (Y1: Prof. Yuta Uetake)**

“X-ray Absorption Spectroscopy in Organic Chemistry: A Case Study of the Suzuki–Miyaura Cross-Coupling”

13:35-13:50 **Lecture Y2 (Y2: Prof. Jieun Jung)**

“Sustainable Photohydrogenation of Carbonyl Compounds”

13:50-14:05 **Lecture Y3 (Y3: Prof. Sobi Asako)**

“Spirobipyridine Ligands for Molecular Recognition and Selective Catalysis”

14:05-14:35 **Lecture 4 (L4: Prof. Jose Maria Lassaletta)**
 "Dynamization as a Key Strategy for Atroposelective Catalysis"

14:35-16:05 Coffee break and Poster session

Chair – Prof. Jose L. Vicario

16:05-16:35 **Lecture 5 (L5: Prof. Masahiro Terada)**
 "Computational Molecular Refinement to Enhance
 Enantioselectivity by Reinforcing Molecular Interactions"

16:35-17:05 **Lecture 6 (L6: Prof. Félix Rodriguez)**
 "Exploring the Realm of Vinyl Cations"

17:05-17:35 **Lecture 7 (L7: Prof. Takashi Ooi)**
 "Urea as Redox-Active Directing Group for Selectivity Control
 in Photocatalytic Radical Reactions"

17:50- Mixer (@Cafe restaurant Kihada)

26 September, 2025 – Obaku Plaza Kihada Hall, Uji Campus, Kyoto University

Chair – Prof. Shinsuke Inagi

10:00-10:30 **Lecture 8 (L8: Prof. Paolo Melchiorre)**
 "Merging Photocatalysis, Biocatalysis, and Organocatalysis"

10:30-11:00 **Lecture 9 (L9: Prof. Jun Terao)**
 "Synthesis and Function of Cyclodextrin-Linked Rotaxanes"

11:00-11:30 **Lecture 10 (L10: Prof. Manuel Alcarazo)**
 "Applications of α -cationic phosphines: Enantioselective
 synthesis of (hetero)helicenes"

11:30-12:00 **Lecture 11 (L11: Prof. Yuki Goto)**
 "Architecting pseudo-natural peptides by in vitro artificial
 biosynthesis"

12:00-13:00 Lunch break

Chair – Prof. Paolo Melchiorre

13:00-13:30 **Lecture 12 (L12: Prof. Olga García-Mancheño)**
" σ -Hole Catalysis"

13:30-14:00 **Lecture 13 (L13: Prof. Tetsuro Kusamoto)**
"Assembled Radicals Enable Spin-Correlated Luminescence"

14:00-14:30 **Lecture 14 (L14: Prof. Martín Fañanas)**
"Catalytic Functionalization of Simple Hydrocarbons"

14:30-15:00 Coffee break

Chair – Prof. Hirohisa Ohmiya

15:00-15:30 **Lecture 15 (L15: Prof. Yoko Sakata)**
"Kinetic Control of Supramolecular Metal Complexes"

15:30-16:00 **Lecture 16 (L16: Prof. Rosario Fernandez)**
"Development of New Catalytic Systems. Applications in Asymmetric Catalysis"

16:00-16:30 **Lecture 17 (L17: Prof. Keiji Maruoka)**
"Design of New HAT Catalysts for Site-Selective Functionalization"

16:30-16:50 Close (Prof. Keiji Maruoka /Prof. Jose L. Vicario)