The Second Japanese-Spanish Symposium on Organic Synthesis

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Organized by Keiji Maruoka (Chairman), Motomu Kanai, Takashi Ooi, and Masahiro Terada

May 28 ~ 29, 2018
Seminar House in the Graduate School of Science
Kyoto University
The Second Japanese-Spanish Symposium on Organic Synthesis
May 28 (Mon) – 29 (Tue), 2018
Venue: Seminar House in the Graduate School of Science, Kyoto University

Detailed Programme

Monday 28 May

9:00 - 9:10 Opening Remarks: Keiji Maruoka (Kyoto University)

[Chairperson: Keiji Maruoka]

9:10 - 9:40 Keynote Lecture 1: Kilian Muñiz (ICIQ)
"Amidyl Radicals in Non-Canonical C-H Amination: Design, Scope and Applications"

9:40 - 10:10 Keynote Lecture 2: Motomu Kanai (The University of Tokyo)
"Protecting Group-Minimized Asymmetric Catalysis"

10:10 - 10:40 Keynote Lecture 3: Claudio Palomo (University of the Basque Country)
"Transiently Generated Enolate Systems: A Catalytic Brønsted Base/ H-Bond Activation Approach"

10:40 - 11:00 Break

[Chairperson: Motomu Kanai]

11:00 - 11:30 Keynote Lecture 4: Yoichiro Kuninobu (Kyushu University)
"Development of Regioselective C-H Bond Transformations"

11:30 - 12:00 Keynote Lecture 5: Mariola Tortosa (Autonomous University Madrid)
"Synthesis of Versatile Synthetic Intermediates through Copper Catalysis"

12:00 - 12:30 Keynote Lecture 6: Takashi Ooi (Nagoya University)
"Ion-Pair Catalysis for Selective Organic Synthesis"

12:30 - 13:30 Poster Session

[Chairperson: Tetsuya Shishido]

13:30 - 14:00 Keynote Lecture 7: José M. González (University of Oviedo)
"Catalytic Activation of Heteroatom-Substituted Unsaturated Systems: Synthetic Applications"

14:00 - 14:30 Keynote Lecture 8: Keiji Maruoka (Kyoto University)
"Advantage of Chiral Amino Organocatalysts over Proline in Asymmetric Enamine Catalysis: A Good Harmony with Water"

14:30 - 15:00 Keynote Lecture 9: Antonio Echavarren (ICIQ)
"New Gold-Catalyzed Cyclizations for the Synthesis of Natural Products"

15:00 - 15:10 Communication 1: Masazumi Tamura (Tohoku University)
"Direct Synthesis of Valuable Chemicals from CO₂ over Heterogeneous CeO₂ Catalyst"

15:10 - 15:20 Communication 2: Naoki Ishida (Kyoto University)
"Explorations of Metathesis Type Reactions between C–C, C–Si, and Si–Si σ-Bonds"

15:20 - 15:40 Break
15:40 - 15:50  Communication 3 : Tatsuhiko Yoshino (Hokkaido University)  
"New Strategy for Asymmetric C-H Bond Functionalization Using Cp*M(III) Catalysts"

15:50 - 16:00  Communication 4 : Hirofumi Ueda (Tohoku University)  
"Synthetic Studies on Dimeric Indole Alkaloids"

16:00 - 16:30  Keynote Lecture 10 : Sonsoles Martín-Santamaría (CIB-CSIC Madrid)  
"Computational Exploration of Pattern Recognition Receptors: Toll-like Receptor 4 and Lectins"

16:30 - 17:00  Keynote Lecture 11 : Masahiro Terada (Tohoku University)  
"Chiral Bis(guanidino)iminophosphorane as Organosuperbase Catalyst"

17:00 - 17:30  Keynote Lecture 12 : Paolo Melchiorre (ICIQ)  
"Organic Synthesis in the Excited State"

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**Tuesday 29 May**

8:50 - 9:20  Keynote Lecture 13 : Hirohisa Ohmiya (Kanazawa University)  
"Umpolung Transformations Using Aldehydes by Synergistic Catalysis"

9:20 - 9:50  Keynote Lecture 14 : Jose L. Vicario (University of the Basque Country)  
"Organocatalytic Activation of Strained Molecules"

9:50 - 10:30  Keynote Lecture 15 : Kei Ohkubo (Osaka University)  
"Photodriven C-H Oxygenation of Methane by Molecular Oxygen with Chlorine Dioxide"

10:30 - 11:00  Break

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10:50 - 11:20  Keynote Lecture 16 : Tetsuya Shishido (Tokyo Metropolitan University)  
"Design of High-Performance Alloy catalysts: Enhancing Activity and Switching Selectivity by the Incorporation of Palladium into Gold Nanoparticles"

11:20 - 11:50  Keynote Lecture 17 : Felix Freire (CIQUS, Santiago de Compostela University)  
"Helical Sense Control of Stimuli-Responsive Helical Polymers"

11:50 - 12:20  Keynote Lecture 18 : Hiroyuki Kusama (Gakushuin University)  
"Photochemically Promoted Intermolecular Coupling Reactions of Acylsilanes with Electrophiles"

12:20 - 12:50  Closing Remarks: Kilian Muñiz (ICIQ)