



International Leading Research  
科研費 国際先導研究



## 2023 International IRCCS-ILR-IRTG Symposium on “New Horizons of Molecular Functions”

<Venue> Lecture hall, Noyori Materials Science Laboratory, Nagoya University

### December 1 (Friday)

- 9:30-9:40      Opening remarks: Shigehiro Yamaguchi (Nagoya University)
- 9:40-10:10    Olga Garcia Moncheno (University of Münster)  
                  “Sigma-hole Catalysis ”
- 10:10-10:35   Katsuhiko Tomooka (Kyushu University)  
                  “New Aspects of Science of Molecular Chirality”
- 10:35-10:55    Break
- 10:55-11:25   Line Næsborg (University of Münster)  
                  “*Micellar Effects in Photocatalysis*”
- 11:25-11:50   Masahito Murai (Nagoya University)  
                  “*Design and Synthesis of Key Nonbenzenoid Core Units Realizing  
Near-Infrared Emission*”
- 11:50-12:20   Johannes Neugebauer (University of Münster)  
                  “*Subsystem-Based Theory for Supramolecular Properties and Function*”
- 12:20-14:00    Lunch and Poster session
- 14:00-14:30    Andrea Rentmeister (University of Münster)  
                  “*Fine-Tuning mRNA Functionality with  $\pi$ -Systems at the 5' Cap*”
- 14:30-14:55    Yuichiro Aiba (Nagoya University)  
                  “*Recognition of double-stranded DNA by peptide nucleic acid forming  
double-duplex invasion complex*”
- 14:55-15:20    Masaharu Nakamura (Kyoto University)  
                  “*Catalysts for Forest Chemical Industry*”

- 15:20-15:45 Kiyotaka Nakajima (Hokkaido University)  
*"Chemocatalytic Valorization of Biomass-derived Furanics to Monomers for Biobased Polymers"*
- 15:45-16:05 Break
- 16:05-16:35 Armido Studer (University of Münster)  
*"Intermolecular HAT and Pyridine Functionalization"*
- 16:35-17:00 Kentaro Tanaka (Nagoya University)  
*"Molecular Capturing of Fullerenes with Macrocyclic Metal Complexes"*
- 17:00-17:30 Motomu Kanai (The University of Tokyo)  
*"Chemical catalyst-promoted degradation of amyloids"*
- 17:30-17:35 Closing remarks: Susumu Saito (Nagoya University)
- 18:00- Banquet

## December 2 (Saturday)

### **Nagoya University, Honorary Degree Conferment Ceremony**

- 10:00–10:10 Introduction of the speaker
- 10:10–11:00 Commemorative Lecture by Prof. Dr. Gerhard Erker
- 11:20–12:00 Honorary Degree Conferment Ceremony  
 Opening  
 Oration by President of Nagoya University, Prof. Naoshi Sugiyama  
 Conferment of the Degree of Honorary Doctor upon Prof. Dr. Gerhard Erker  
 Congratulatory address by University Professor of Nagoya University,  
 Dr. Ryoji Noyori  
 Congratulatory address by Professor Emeritus of Nagoya University,  
 Dr. Kazuyuki Tatsumi  
 Commemorative presentation by RCMS and IRCCS  
 Address by Prof. Dr. Gerhard Erker  
 Group Photo Session
- 12:20–13:30 Lunch

### **IRCCS-ILR-IRTG collaborative activity**

- 13:30–17:00 *One-on-one discussion  
 among the members including faculty members and students*