



***The First Symposium of Chiral Molecular Science and Technology  
in Chiba University  
‘-Advanced Materials Science, Biology & Nanophotonics in Chiba-’  
Sponsored by Molecular Chirality Research Center (MCRC)***

**2016. 2. 29. (Mon.)**

- 10:00-10:15      ***Opening Remark***  
Takeshi Tokuhisa (President, Chiba University)  
Takashige Omatsu (MCRC Director, Chiba University)
- 10:15-11:45      ***Synthetic Chemistry***
- 10:15-10:55      C. T. Chen (National Tsing Hua University, Taiwan)  
*New Dimensions of Vanadyl Species in Ion Specific Sensing and Asymmetric Amplified Transcription*
- 10:55-11:25      Takashi Ooi (Nagoya University, Japan)  
*Toward Catalytic Control of Photoinduced Radical Reactions*
- 11:25-11:45      Takayoshi Arai (Chiba University, Japan)  
*Solid-phase Catalysis/CD-HTS and Diversity-oriented Asymmetric Catalysis (DOAC)*
- 11:45-13:30      ***Lunch Break***
- 13:30-15:30      ***Photonics***
- 13:30-14:10      Kishan Dholakia (University of St. Andrews, UK)  
*Shaping Light for Manipulation and Biomedical Imaging*
- 14:10-14:40      Hajime Ishihara (Osaka Prefecture University, Japan)  
*Manipulation of nanostructures by resonant optical responses*
- 14:40-15:10      Kazuhiko Misawa (Tokyo University of Agriculture and Technology, Japan)  
*Vector-field control of ultrashort laser pulses for angular momentum transfer*
- 15:10-15:30      Takashige Omatsu (Chiba University, Japan)  
*Nano materials science based on optical angular momentum transfer*
- 15:30-16:00      ***Coffee Break***
- 16:00-17:30      ***Poster Session & Exhibition***
- 18:00-20:00      ***Welcome Reception***

**2016. 3. 1. (Tues.)**

- 10:00-12:00      ***Structural and Molecular Biology***
- 10:00-10:40      Thomas Meier (Imperial College London, UK)  
*Structure of complete rotary ATP synthase and its role as new drug target against tuberculosis*
- 10:40-11:00      Takeshi Murata (Chiba University, Japan)  
*New technology for human membrane protein crystallography*
- 11:00-11:30      Kazuhiro Maejima (National Institute of Genetics, Japan)  
*Chromatin fluctuation in living mammalian cells*
- 11:30-11:50      Akira Matsuura (Chiba University, Japan)  
*Road to cellular senescence: functional link between nuclear architecture and genome integrity*
- 11:50-13:30      ***Lunch Break***
- 13:30-15:50      ***Nanoscience***
- 13:30-14:10      Ron Naaman (The Weizmann Institute of Science, Israel)  
*The chiral induced spin selectivity- From spintronics to water splitting*
- 14:10-14:30      Toyokazu Yamada (Chiba University, Japan)  
*Growth of atomically-flat bcc-Fe/MgO(001) films on Fe(001)-p(1x1)O*
- 14:30-15:10      David Cahen (The Weizmann Institute of Science, Israel)  
*Solid State Electron Transport across Peptides: Importance of Coupling to Electrodes (tentative)*
- 15:10-15:30      Hisao Ishii (Chiba University, Japan)  
*Photoemission in atmospheric environment: from organic semiconductor to biomolecule*
- 15:30-15:50      Shiki Yagai (Chiba University, Japan)  
*Metastable Molecular Assemblies as a New Material Design*
- 15:50-16:00      ***Closing Remark***  
Takashige Omatsu (MCRC Director, Chiba University, Japan)
- 16:00-17:30      ***Lab Tour***
- 17:40-19:40      ***Closing Dinner***