



# International Symposium at Frontier Research Base for Global Young Researchers

## Program

**Date:** November 15, 2016

**Place:** Icho-Kaikan 3F  
Suita Campus,  
Osaka University

- 10:30 Opening Remarks, Toshihiro Tanaka, Dean  
Susumu Kuwabata, Director
- 10:45 Design of functional catalysts using hollow silica  
as a platform material, Yasutaka Kuwahara
- 11:35 Probing Metal and Semiconductor Nanoparticles  
by Electronics and Photonics Technologies,  
Taro Uematsu
- 12:20 Break
- 13:50 Group 13 Metal Lewis Acid Catalyzed Coupling Reaction  
of Enol Derivatives with Organosilicon Compounds,  
Yoshihiro Nishimoto
- 14:40 Air Quality Modeling over East Asia, Hikari Shimadera
- 15:25 Break
- 15:40 Short Presentations (3 minutes each)
- |                     |                        |               |
|---------------------|------------------------|---------------|
| • Noriaki Nakatsuka | • Yu Sasano            | • Koji Oohora |
| • Hideaki Takata    | • Kimiaki Washino      | • Yuji Nishii |
| • Tatsuya Sugihara  | • Yoichi Hoshimoto     | • Yuji Ohishi |
| • Heun Tae Lee      | • Ery Odette Fukushima |               |
| • Yasuhiko Kato     | • Hisashi Ishihara     |               |
- 16:30 Poster Session (details on the back)
- 18:00 Closing Remark, Susumu Kuwabata, Director

**Noriaki Nakatsuka**

“Frontier Research in Combustion Engineering”

**Hideaki Takata**

“Development of novel methods to visualize higher order structures of mitotic chromosome”

**Tatsuya Sugihara**

“Development of a novel CBN cutting tool for high-speed machining of Inconel 718”

**Heun Tae Lee**

“Modeling Fuel Retention in Tokamak Fusion Device”

**Yasuhiko Kato**

“Genetic engineering of the crustacean *Daphnia magna*: Functional analyses of a long noncoding RNA controlling environmental sex determination”

**Yu Sasano**

“CRISPR-PCS: a versatile chromosome manipulation technology in yeast”

**Kimiaki Washino**

“Direct numerical simulation of liquid-gas flow between particles”

**Yoichi Hoshimoto**

“Control Frustration between Molecules : Concept and Utilization”

**Ery Odette Fukushima**

“Biosynthesis and production of high value plant specialized metabolites”

**Hisashi Ishihara**

“Analysis and functionalization of soft materials toward rich interaction between humans and robots”

**Yasutaka Kuwahara**

“Design of functional catalysts using hollow silica as a platform material”

**Taro Uematsu**

“Probing Metal and Semiconductor Nanoparticles by Electronics and Photonics Technologies”

**Yoshihiro Nishimoto**

“Group 13 Metal Lewis Acid Catalyzed Coupling Reaction of Enol Derivatives with Organosilicon Compounds”

**Hikari Shimadera**

“Air Quality Modeling over East Asia”

**Koji Oohora**

“Rational design and construction of myoglobin-based artificial metalloenzyme toward C–H bond hydroxylation”

**Yuji Nishii**

“Construction of polycyclic aromatic frameworks by transition metal catalyzed C-H functionalization”

**Yuji Ohishi**

“Physical properties of molten materials measured by levitation technique”

