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# The 3rd International Symposium on Process Chemistry [ISPC 2015]

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## Program

(Main Hall is used unless otherwise stated.)

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### July 13 (Mon)

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**15:30-17:00**      **Registration**

**17:00-19:00**      **Welcome Reception (Banquet Hall Swan)**

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### July 14 (Tue)

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**8:30**              **Registration**

**9:00- 9:10**      **Opening Remarks**

**Kiyoshi Tomioka**

*(Chairman of ISPC 2015, Doshisha Woman's College of Liberal Arts., Japan)*

**9:10- 9:50**      **Important Asymmetric and Catalytic Transformations for Drug**

**K-1**              **Development**

(Keynote Lecture) **Chris Senanayake** *(Boehringer Ingelheim Pharmaceuticals Inc., USA)*

*Chair: Kazuhiko Takahashi (Sumitomo Dainippon Pharma, Japan)*

**9:50-10:30**      **Understanding Reaction Kinetics for Optimization and Scale-up of API**

**K-2**              **Synthesis Steps**

(Keynote Lecture) **Steve Cropper** *(Scale-up Systems Ltd., Ireland)*

*Chair: Yasuyuki Kita (Ritsumeikan Univ., Japan)*

**10:30-10:45**      **Break**

**10:45-11:25**      **Application of Chiral Technologies in the Synthesis of Pharmaceutical**

**K-3**              **Intermediates**

(Keynote Lecture) **Vilas H. Dahanukar** *(Dr. Reddy's Laboratories Ltd., India)*

*Chair: Kozo Shishido (Tokushima Univ., Japan)*

**11:25-12:05**      **Helical Macromolecular Catalysts for Next-Generation Catalytic**

**K-4**              **Asymmetric Synthesis**

(Keynote Lecture) **Michinori Suginome** *(Kyoto University, Japan)*

*Chair: Toshiro Konoike (Osaka Synthetic Chemical Laboratories, Japan)*

- 12:05-13:00** Lunch (*Banquet Hall Sakura*)
- 13:00-13:25** General Assembly of JSPC (*in Japanese*)
- 13: 25-14:50** Oral Presentation (*10 min each*)  
(1P-01, 1P-06, 1P-07, 1P-08, 1P-35, 1P-36, 1P-46, 1P-55)  
*Chair: Makoto Michida (Daiichi Sankyo, Japan)*  
*Chair: Keiji Ohno (Wako, Japan)*
- 14:50-15:50** Poster Presentation (1P-01~1P-63) (*Annex Hall*)  
*Chair: Yasumasa Hayashi (Astellas, Japan)*  
*Chair: Osamu Yamada (Nissan Chemical, Japan)*
- 15:55 -16:35** Challenges in the Development of Processes for Chiral Drugs
- K-5** Mukund Gurjar (*Emcure, India*)  
(Keynote Lecture) *Chair: Kin-ichi Tadano (Keio Univ., Japan)*
- 16:35-17:15** Process Design with the End in Mind: Development of Omecamtiv
- K-6** Mecarbil, a Novel Cardiac Myosin Activator  
(Keynote Lecture) Shawn D. Walker (*Amgen, Inc., USA*)  
*Chair: Hironao Sajiki (Gifu Pharm. Univ., Japan)*
- 17:15-17:55** Asymmetric Counteranion Directed Catalysis (ACDC): A General
- K-7** Approach to Enantioselective Synthesis  
(Keynote Lecture) Benjamin List (*Max-Planck-Institut für Kohlenforschung, Germany*)  
*Chair: Takayuki Shioiri (Nagoya City Univ., Japan)*
- 18:10-20:40** Banquet (*Banquet Hall Sakura*)  
Welcome Address: Kiyoshi Tomioka  
(*President of JSPC, Doshisha Women's College of Liberal Arts, Japan*)

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### July 15 (Wed)

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- 9:00- 9:40** Commercial Applications of Continuous Process in SK.
- K-8** Jun-ku Park (*SK Biotek Co., Ltd., Korea*)  
(Keynote Lecture) *Chair: Katsuya Tagami (Eisai, Japan)*
- 9:40-10:20** The Synthesis of Novel Pharmaceuticals
- K-9** David M Tschaen (*Merck, USA*)  
(Keynote Lecture) *Chair: Toshiaki Mase (Institute Molecular Science, Japan)*
- 10:20 -10:35** Break
- 10:35 -11:15** Dasotraline: From Laboratory to Commercial-Scale Manufacture

- K-10** **Robert Prytko, Charles Vandenbossche** (*Sunovion Pharmaceutical Inc., USA*)  
 (Keynote Lecture) *Chair: Toshihisa Kato (Ajinomoto, Japan)*
- 11:15-11:55** **Some Examples of Industrial Process Development Challenges**
- K-11** **Stéphane Varray** (*Lonza AG, Switzerland*)  
 (Keynote Lecture) *Chair: Minoru Okada (Astellas, Japan)*
- 11:55-12:55** **Lunch** (*Banquet Hall Sakura*)
- 12:55-14:20** **Oral Presentation** (*10 min each*)  
**(2P-01, 2P-15, 2P-20, 2P-40, 2P-44, 2P-48, 2P-62, 2P-63)**  
*Chair: Takashi Inaba (JT, Japan)*  
*Chair: Osamu Onomura (Nagasaki Univ., Japan)*
- 14:20-15:20** **Poster Presentation (2P-01~2P-64)** (*Annex Hall*)  
*Chair: Taro Kiyoto (Toyama Chemical, Japan)*  
*Chair: Norihiko Tanimoto (Shionogi, Japan)*
- 15:25-16:05** **Development of New Catalytic System for C-H Arylation and**  
**K-12** **Application to Synthesis of Pharmaceuticals**  
 (Keynote Lecture) **Masahiko Seki** (*API Corporation, Japan*)  
*Chair: Masahiro Ohshima (Mitsubishi Tanabe, Japan)*
- 16:05-16:45** **Methodologies toward Efficient Synthesis of Chiral Natural Products**  
**K-13** **and Drugs**  
 (Keynote Lecture) **Wenjun Tang**  
*(Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, China)*  
*Chair: Masaru Mitsuda (Kaneka, Japan)*
- 16:45-17:25** **A Few of My Favorite Rings: Catalytic Cycles Inspired by Macrocycles**  
**K-14** **Vy M. Dong** (*University of California, Irvine, USA*)  
 (Keynote Lecture) *Chair: Takahiko Akiyama (Gakushuin Univ., Japan)*
- 17:25-17:30** **Release of JSPC Awardees for Excellence 2015**
- 17:30-17:35** **Closing Remarks**  
**Toshiro Konoike** (*Osaka Synthetic Chemical Laboratories, Japan*)