



# 日本安全性薬理研究会

Japanese Safety Pharmacology Society

## 5<sup>th</sup> Japanese Safety Pharmacology Society (JSPS) Annual Meeting

### Program (FINAL)

**Date:** February 14 (Fri) -15 (Sat), 2014

**Venue:** The University of Tokyo, Yayoi Auditorium, Ichijo Hall / Annex

**President:** Hiroyuki Tashibu (Dainippon Sumitomo Pharma Co., Ltd.)

### Day 1 (February 14)

(Yayoi Auditorium, Ichijo Hall)

**10:00 - 17:00**      **Poster Sessions** (Yayoi Auditorium, Annex)

**9:50 - 10:00**      **Opening**

**Opening remarks** (Hiroyuki Tashibu, President of 5<sup>th</sup> Annual Meeting)

**10:00 - 11:50**      **Symposium 1 [Cardiovascular system]** (Yayoi Auditorium, Ichijo Hall)

**Prospective and application of new evaluation method for cardiovascular safety pharmacology**

1. Evaluation of Cardiac Function by New Echocardiographic Technology

Mitsushige Murata (Department of Laboratory Medicine, School of Medicine, Keio University)

2. Evaluation of *In Vitro* Cardiac Function

Susumu Minamisawa (Department of Cell Physiology Jikei University School of Medicine)

3. Potential Applications of Heart Simulation to the Safety Pharmacology Study in the Future

Takashi Ashihara (Department of Cardiovascular Medicine, Heart Rhythm Center, Shiga University of Medical Science)

**12:20 - 13:20**      **Luncheon Seminar 1** (Faculty of Agriculture, building number 1st)

Under the sponsorship of Cosmo Bio Co., Ltd.

Ion channels and the Present State of Cardiac Safety Assessment in Drug Development

Arthur M. "Buzz" Brown, M.D., Ph.D. (President & CEO, ChanTest Corporation)



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## 13:45 - 14:30 Oral Sessions (Yayoi Auditorium, Ichijo Hall)

1. Usefulness of an *in silico* cardiac simulation study for integrated assessment of cardiac safety of drugs  
Taeko Kubo (Dainippon Sumitomo Pharma Co., Ltd.)
2. Cellular Impedance Assay for Prediction of QT Prolongation Induced by hERG and non-hERG Channel Modulators Using Human Stem Cell Derived Cardiomyocytes  
Xiaoyu Zhang (ACEA Biosciences Inc.)
3. Assessment of Testing Methods of the Drug-Induced Repolarization Delay and Arrhythmias in an iPS-Derived Cardiomyocyte Sheet: Multi-Site Validation Study  
Yuji Nakamura (Department of Pharmacology, Faculty of Medicine, Toho University)

## 14:50 - 15:40 Special lecture [Regenerative medicine] (Yayoi Auditorium, Ichijo Hall)

**A New Approach for 3D Tissue & Organ Fabrication Inspired from Orthopedic Surgery**  
Koichi Nakayama (Graduate School of Science and Engineering, Saga University)

## 16:00 - 17:50 Symposium 2 [CNS, Cognitive function] (Yayoi Auditorium, Ichijo Hall)

**[Useful CNS-related knowledge for safety pharmacology research]**

1. Zebrafish-Based Safety Systems Pharmacology of Central Nervous System  
Toshio Tanaka (Department of Molecular and Cellular Pharmacology, Pharmacogenomics and Pharmacoinformatics, Mie University Graduate School of Medicine)
2. A Strategy for Detecting Side Effects by Using Comprehensive Behavioral Test Battery  
Tsuyoshi Miyakawa (Division of Systems Medical Science, Institute for Comprehensive Medical Science, Fujita Health University) (Center for Genetic Analysis of Behavior, National Institute for Physiological Sciences)
3. Alzheimer's Disease: From Molecular Pathophysiology to Disease-modifying Therapy  
Takeshi Iwatsubo (Department of Neuropathology, Graduate School of Medicine, The University of Tokyo)

## 18:30 – Banquet Party (Sanjo Conference Hall)



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## Day 2 (February 15)

(Yayoi Auditorium, Ichijo Hall)

**9:00 - 15:00**      **Poster Sessions** (Yayoi Auditorium, Annex)  
**Poster Discussion** (11:10 - 12:30)

**8:45 - 9:30**      **Oral Sessions** (Yayoi Auditorium, Ichijo Hall)

4. Image-Based Evaluation of Contractile Propagation in Cardiomyocyte Monolayer  
Kazuya Takahashi (Sony Corporation)
5. Effects of Selective  $I_{Kr}$  Channel Blockade by E-4031 on Ventricular Electro-Mechanical Relationship in the Halothane-Anesthetized Dogs  
Hiroko Izumi-Nakaseko (Department of Pharmacology, Faculty of Medicine, Toho University)
6. Discovery of DS-8108b, a Novel Renin Inhibitor with Reduced Potential Cardiovascular Risk  
Katsuyoshi Chiba (Daiichi Sankyo Co., Ltd.)

**9:50 - 10:50**      **Educational Lecture** (Yayoi Auditorium, Ichijo Hall)

**How to better analyze arrhythmias in ECG**

Atsushi Sugiyama (Department of Pharmacology, Faculty of Medicine, Toho University)

**12:50 - 13:50**      **Luncheon Seminar 2** (Faculty of Agriculture, building number 1st)

Under the sponsorship of Sophion Bioscience A/S

1. Usability of Stem-Cell Derived Cardiomyocytes for Safety Assessments using QPatch HT Current Clamp Technique  
Rikke Louise Schroder Perrier, Ph.D. (Scientific Sales Manager Europe, Sophion Bioscience A/S)
2. Safe Ion: Safety Pharmacology and Ionic Transport  
Jean-Francois Rolland, Ph.D. (Principal Scientist, Electrophysiology Unit Manager, Axxam SpA)

**14:10 - 15:20**      **Symposium 3 [Statistical Methods in Safety Pharmacology Studies]** (Yayoi Auditorium, Ichijo Hall)

1. Current Status of Statistical Analyses on Cardiovascular System in the Safety Pharmacology Core Battery in Japan  
Tadashi Koga (Shin Nippon Biomedical Laboratories, Ltd.)



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2. Cardiovascular Safety Assessments in the Conscious Telemetered Dog :  
Proposals for Study Design, Data Analysis, and Statistical Methods  
Masahiro Bando (Eisai Co., Ltd.)

**15:40 - 16:20**      **Safety Pharmacology Q&A** (Yayoi Auditorium, Ichijo Hall)

**16:30 - 17:30**      **Overseas Invited Speakers** (Yayoi Auditorium, Ichijo Hall)

**The New CiPA Paradigm: Current Status and Path Forward**

Bernard Fermini, Ph.D. (Ion Channel Discipline Lead, Global Safety Pharmacology, Pfizer)

**17:30 –**              **Closing** (Yayoi Auditorium, Ichijo Hall)

**JSPS award ceremony** (Kohei Sawada, President of Japanese Safety Pharmacology Society)

**Closing remarks** (Mitsuyasu Tabo, President of 6<sup>th</sup> Annual Meeting)