

Program

March 18 (Fri) at Okazaki Conference Center (OCC)

08:30 - 09:00 Registration

Opening Remarks

09:00 - 09:05 Naoto Ueno (National Institute for Basic Biology, Japan)

Plenary Lecture 1

Chair: Kiyoshi Naruse and Toshio Tanaka

09:05 - 09:45 **“Medaka as a Model for Human Diabetic Nephropathy”**
Tomoko Obara (University of Oklahoma Health Sciences Center, USA)

Session 1

Chair: Kiyoshi Naruse and Toshio Tanaka

09:45 - 10:10 **“Multiple Roles of Hippo-YAP Signaling Pathway in Organ Development: Lessons from Medaka and Zebrafish”**
Yoichi Asaoka (Yamaguchi University, Japan)

10:10 - 10:35 **“Viable Neuropathic Gauche Disease Model in Medaka (*Oryzias latipes*) Displays Axonal Accumulation of Alpha-Synuclein”**
Norihito Uemura (Kyoto University, Japan)

10:35 - 10:50 Coffee Break

10:50 - 11:15 **“Zebrafish-Based Drug Discovery and Systems Pharmacology”**
Toshio Tanaka (Mie University, Japan)

11:15 - 11:40 **“Leptin Receptor Knockout Medaka Exhibit Hyperglycemia due to Impaired Insulin Secretion”**
Shin-ichi Chisada (National Institute for Basic Biology, Japan)

Session 2

Chair: Takashi Kato and Masasuke Araki

11:40 - 12:05 **“Evoking Functional Joint Regeneration in *Xenopus laevis* Using Reintegration Mechanism”**
Kiyokazu Agata (Kyoto University, Japan)

12:05 - 12:30 **“*Xenopus* as a Useful Resource for Studying Gene Evolution and Disease-causing Mutations”**
Hajime Ogino (Nagahama Institute of Bio-Science and Technology, Japan)

12:30 - 13:45 Lunch

Plenary Lecture 2

Chair: Kiyokazu Agata and Hajime Ogino

13:45 - 14:25 **“How Symbiosis Changes the Way We See Nature and Study Disease and Toxicology”**
Scott F. Gilbert (Swarthmore College, USA)

Session 3

Chair: Kiyokazu Agata and Hajime Ogino

14:25 - 14:50 **“*Xenopus* Model of Retinal Regeneration as an Approach to the Development of Mammalian Ocular Tissue Stem Cells”**
Masasuke Araki (Nara Medical University, Japan)

14:50 - 15:15 **“Skin Regeneration of *Xenopus*, as a Model for Scar-Free Skin Regeneration in Adulthood”**
Hitoshi Yokoyama (Hirosaki University, Japan)

15:15 - 15:40 **“Organ Regeneration; Pioneering Another Choice”**
Akira Satoh (Okayama University, Japan)

15:40 - 16:05 **“The Great Capacity of the Ependymal Cells of the Spinal Cord in Amphibians – Toward the Treatment of Spinal Cord Injury in Humans –”**
Masaaki Kitada (Tohoku University, Japan)

16:05 - 16:30 **“Zebrafish Models for Endocrine Disruptors and Steroid Deficiency”**
Bon-chu Chung (Academia Sinica, Taiwan)

Poster Session

16:30 - 17:15 Poster Session (Odd Number)

17:15 - 18:00 Poster Session (Even Number)

18:00 - 20:00 Mixer

March 19 (Sat) at OCC

Plenary Lecture 3

Chair: Shosaku Kashiwada and Taisen Iguchi

09:00 - 9:40 **“The Past, Present and Future on Marine Environmental Research Using the Marine Medaka *Oryzias melastigma* Model”**
Doris W.T. AU (City University of Hong Kong)

Session 4

Chair: Shosaku Kashiwada and Taisen Iguchi

09:40 - 10:05 **“Medaka Fish Model for Environmental Health Sciences”**
Shosaku Kashiwada (Toyo University, Japan)

10:05 - 10:30 **“Applied Toxicity Tests for Endocrine Disrupters”**
Taisen Iguchi (National Institute for Basic Biology, Japan)

10:30 - 10:45 Coffee Break

Session 5

Chair: Tsukasa Mori and Toshiyuki Okano

10:45 - 11:10 **“Suppression in Amiodarone on *Xenopus* Metamorphosis”**
Akihiko Kashiwagi (Hiroshima University, Japan)

11:10 - 11:35 **“Developmental Changes of Drug-Metabolizing Enzymes Related to Accumulation of Chemicals in Tadpoles and Adult Frogs”**
Seigo Sanoh (Hiroshima University, Japan)

Session 6

Chair: Takayuki Takahashi and Yasuhiro Iwao

11:35 - 12:00 **“Dynamic Changes in Signal Transduction in the Brains of *Xenopus* Tadpoles under Exposure to a Predation Fear”**
Tsukasa Mori (Nihon University, Japan)

12:00 - 12:25 **“Insights into the Regulation of Hematopoiesis through New Animal Models”**
Takashi Kato (Waseda University, Japan)

12:25 - 13:40 Lunch

Session 7

Chair: Haruki Ochi and Akira Satoh

13:40 - 14:05 **“Medaka is a Good Experimental Model for Studies of Vertebrate Ovulation”**
Takayuki Takahashi (Hokkaido University, Japan)

14:05 - 14:30 **“Mechanisms of Egg Activation and Polyspermy Block in the Fertilization of Amphibians: Model Animals for Vertebrate Fertilization”**
Yasuhiro Iwao (Yamaguchi University, Japan)

Session 8

Chair: Akihiko Kashiwagi and Hitoshi Yokoyama

14:30 - 14:55 **“Biological Rhythms and Cryptochromes in *Xenopus tropicalis*”**
Toshiyuki Okano (Waseda University, Japan)

14:55 - 15:20 **“Have Mammals Lost the Regenerative Ability though the Loss of Regeneration Signal Response Elements?”**
Haruki Ochi (Yamagata University, Japan)

15:20 - 15:45 **“Ascidian *Ciona intestinalis* as the Simple Model for Studying Cellular and Molecular Mechanisms for Constructing Chordate Body”**
Yasunori Sasakura (University of Tsukuba, Japan)

Closing Remark

15:45 - 15:50 Kiyoshi Naruse (National Institute for Basic Biology, Japan)