

Scientific Program

08:55-9:00 Opening Remarks: Keiichi Itoi (Principal Organizer, Tohoku University)

09:00-10:30 Session 1: Behavioral Science and Clinical Implications Related to the Parvo- and Magnocellular Neurons

Chair persons: Akira Shimatsu (National Hospital Organization Kyoto Medical Center), Mitsumori Kawaminami (Kitasato University)

Hiroshi Arima (Nagoya University)

Formation of Endoplasmic Reticulum-Associated Compartment in Vasopressin Neurons: A Mechanism by Which Endoplasmic Reticulum Stress is Reduced

Katsuhiko Nishimori (Tohoku University)

Study of the Molecular and Physiological Mechanism Regulating Social Memory by Neurons Expressing Oxytocin Receptor

Sonoko Ogawa (University of Tsukuba)

Neural, Hormonal and Experiential Control of Social and Emotional Behavior

10:30-10:40 break

10:40-12:10 Session 2: Physiological Mechanisms Regulating the Parvo- and Magnocellular Neurons

Chair persons: Jun Arita (Yamanashi University), Koji Takano (Kitasato University)

Tatsushi Onaka (Jichi Medical University)

Noxious or Non-Noxious Inputs to Oxytocin Neurons: Possible Roles in the Control of Behaviors

Yoichi Ueta (University of Occupational and Environmental Health)

Optogenetic Approach to Regulate Neuronal Activity in Rat Vasopressin Neuron

Keiichi Itoi (Tohoku University)

Characterization and Future Perspectives of the Corticotropin-Releasing Factor-Modified Yellow Fluorescent Protein-Knock-In Mouse

12:10-12:20 break

12:20-13:00 Luncheon Seminar (in Japanese)

Chair: Hironobu Sasano (Tohoku University)

Yutaka Oki (Hamamatsu University School of Medicine)

Medical management of functional pituitary adenoma

13:00-13:20 break

13:20-14:10 Keynote Lecture

Jeffrey G. Tasker (Tulane University)

Novel Neuronal-Glial Signaling in Magnocellular and Parvocellular
Neurons of the Hypothalamic Paraventricular Nucleus

Chair: Keiichi Itoi (Tohoku University)

14:10-14:20 break

14:20-15:50 Session 3: Structure of the Parvo- and Magnocellular Neurons

Chair persons: Hitoshi Ozawa (Nippon Medical School), Yukari Date (Miyazaki
University)

Hiroataka Sakamoto (Okayama University)

'Volume Transmission' Role of Oxytocin in the Regulation of the Male
Sexual Function in the Spinal Cord

Mayumi Nishi (Nara Medical University)

A New Hypothalamic Area Enriched with Perineuronal Nets Having
Bidirectional Connections between the Lateral Septum

James P. Herman (University of Cincinnati)

Paraventricular Nucleus Mechanisms of Stress Integration

15:50-16:00 break

16:00-17:30 Session 4: Molecular Biology and Development of the Parvo- and Magnocellular Neurons

Chair persons: Masamitsu Nakazato (Miyazaki University), Yutaka Takahashi (Kobe University)

Hiroshi Nagasaki (Fujita Health University)

Induction of Hypothalamic Neurons from Pluripotent Stem Cells

Yasumasa Iwasaki (Kochi University)

Transcriptional Regulation of Vasopressin Gene: Update in 2015

Greti Aguilera (NICHD/NIH)

Molecular Regulation of CRH Gene Expression in Parvocellular Neurons

17:30-17:35 Closing Remarks: Mitsuhiro Kawata (Bukkyo University)

Social Program

Banquet

18:00-20:00

Main Hall at Gonryo Kaikan