

Program

TUESDAY, OCTOBER 8, 2019

15:00–17:00 Registration

17:10–17:15 Opening Remarks: Kazuhide INOUE

17:15–18:55 Plenary Lecturers

Chairs: Kazuhide INOUE
Kazushige TOUHARA

17:15–18:05 [PL-1]

Sex, Pain and Microglia20
Michael William SALTER
(Hospital for Sick Children, Canada)

18:05–18:55 [PL-2]

From olfactory circuit assembly to thirst motivation22
Liqun LUO
(Stanford University, USA)

18:55–20:30 Welcome Reception

WEDNESDAY, OCTOBER 9, 2019

9:00–12:30 Session A

Pain

Chair: Fusao KATO

9:00–9:30 [A-1]

The central amygdala regulates widespread mechanical hypersensitization24
Fusao KATO
(The Jikei University School of Medicine, Japan)

9:30–10:00 [A-2]

Comparative biology of pain: evidence from fish models26
Lynne Ure SNEDDON
(University of Liverpool, UK)

10:00–10:30 [A-3]

Neural circuits and molecular mechanisms for pain unpleasantness28
Gregory SCHERRER
(University of North Carolina, USA)

10:30–11:00 Coffee Break

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- 11:00–11:30 [A-4]**
Interoceptive signals drive aversive emotional learning through parallel brainstem-to-amygdala circuits30
Joshua Patrick JOHANSEN
 (RIKEN, Japan)
- 11:30–12:00 [A-5]**
Developing generalizable brain models of pain and affective processes32
Tor Dessart WAGER
 (Dartmouth College, USA)
- 12:00–12:30 [A-6]**
Modulation of mechanosensory behavior by a spinal astrocyte population34
Makoto TSUDA
 (Kyushu University, Japan)
- 12:30–15:00 Lunch-Group Photo Shooting**
- 15:00–17:30 Session B**
Itch
 Chair: Makoto TSUDA
- 15:00–15:30 [B-1]**
Imaging of epidermal nerves in barrier-impaired skin during chronic itch development36
Takaharu OKADA
 (RIKEN Center for Integrative Medical Sciences, Japan/Yokohama City University, Japan)
- 15:30–16:00 [B-2]**
The role of Mrgprs in itch sensation38
Xinzhong DONG
 (Johns Hopkins University, USA)
- 16:00–16:30 Coffee Break**
- 16:30–17:00 [B-3]**
Circuit mechanisms underlying modulation of itch40
YanGang SUN
 (Chinese Academy of Sciences, China)
- 17:00–17:30 [B-4]**
How do we code pain, itch and cold in the spinal cord?42
Junichi HACHISUKA
 (University of Glasgow, UK)
- 17:30–18:00 Flash Talk I (Pain & Itch)**
 (02, 03, 06, 07, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, 35, 38, 39, 42, 43, 46, 47, 50, 51, 54)

18:00–19:30 Dinner

19:30–21:30 Poster Session I (Pain & Itch)

THURSDAY, OCTOBER 10, 2019

9:00–11:55 **Session C**

Smell

Chair: Kazushige TOUHARA

- 9:00–9:30 [C-1]
Systematic representations of odor chemical space in cortex44
Sandeep Robert DATTA
(Harvard University, USA)
- 9:30–10:00 [C-2]
Motivation to Action: Neural mechanisms of aggression46
Dayu LIN
(New York University, USA)
- 10:00–10:30 [C-3]
Identification of olfactory alarm substances in zebrafish48
Yoshihiro YOSHIHARA
(RIKEN Center for Brain Science, Japan)

10:30–10:55 Coffee Break

- 10:55–11:25 [C-4]
Odor-taste multisensory integration in *Drosophila*50
Hokto KAZAMA
(RIKEN Center for Brain Science, Japan)
- 11:25–11:55 [C-5]
Insect chemosensory receptors involved in feeding behavior52
Kazushige TOUHARA
(The University of Tokyo, Japan)

11:55–12:30 **Flash Talk II (Smell & Taste)**
(01, 04, 05, 08, 09, 12, 13, 16, 17, 20, 21, 24, 25, 28, 29, 32, 33, 36, 37, 40, 41, 44, 45, 48, 49, 52, 53, 55, 56, 57, 58, 59, 60)

12:30–13:30 Lunch

13:30–15:30 Poster Session II (Smell & Taste)

15:30–16:30 Coffee Break

16:30–19:40 Session D**Taste**

Chairs: Yuzo NINOMIYA
Yuki OKA

16:30–16:50 [D-1]

Taste session: Overview54
Yuzo NINOMIYA
(Kyushu University, Japan/Monell Chemical Senses Center, USA)

16:50–17:20 [D-2]

Complexity of bitterness perception56
Wolfgang MEYERHOF
(Saarland University, Germany)

17:20–17:50 [D-3]

Mechanisms of fluid homeostasis58
Yuki OKA
(California Institute of Technology, USA)

17:50–18:10 Coffee Break**18:10–18:40 [D-4]**

Molecular and neural network mechanisms for the alteration in taste evaluation of *C. elegans*60
Yuichi IINO
(The University of Tokyo, Japan)

18:40–19:10 [D-5]

Neurochemical organization of the *Drosophila* brain visualized by endogenously tagged neurotransmitter receptors62
Hiromu TANIMOTO
(Tohoku University, Japan)

19:10–19:40 [D-6]

Visceral and Chemosensory Controls of Brain Reward Systems ...64
Ivan E. de ARAUJO
(Icahn School of Medicine at Mount Sinai, USA)

19:40–21:00 Dinner**Announcement of Selected Poster Speakers**

FRIDAY, OCTOBER 11, 2019

8:30–10:40 Session E

Chairs

First Half: Fusao KATO
 Makoto TSUDA

Second Half: Yuzo NINOMIYA
 Kazushige TOUHARA

Session E will be set up with 8 selected poster presenters.

The presenters will be selected and announced by the organizing committee by the end of Day 3.

They will be asked to give 15 minutes oral presentation including 3 minutes discussion.66

10:40–10:50 Awarding Ceremony

10:50–11:00 Introduction of The Naito Foundation

11:00–11:05 Closing Remarks: Kazuhide INOUE

11:30–12:00 Lunch