

Schedule and Oral Presentations

Dec 5 (Wed)

18:30 - 20:30	Reception party for invited speakers & informal discussion (New Grand Hotel)
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(Presentation (+ discussion) time is **30** (+ 10) **min**, if not stated otherwise.)

Dec 6 (Thu)

9:00 - 9:05	Opening remarks
	Keiji Imoto (Director General, NIPS)
9:05 - 9:10	Introduction
	Yasuo Mori (Kyoto)
Session 1	Special lecture (Chair : Yasuo Mori)
9:10 - 10:05	Ion channel wonderland
	Keiji Imoto (NIPS) 45 + 10 min
10:05 - 10:15	Short break
Session 2	Potassium channels & HCN channels (Chair : Shigetoshi Oiki)
10:15 - 10:55	New insights into basic properties of the strong inward rectifier K ⁺ channel
	Keiko Ishihara (Kurume)
10:55 - 11:35	Direct neurotransmitter activation of voltage-gated potassium channels
	Geoffrey Abbott (Irvine, USA)
11:35 - 12:15	Molecular mechanisms of voltage- and ligand-gating in HCN channels
	Baron Chanda (Madison, USA)
12:15 - 12:55	1 min Flash Talks of Poster Presentations #1 (odd numbers)
12:55 - 13:05	Group Photo
13:05 - 14:10	Lunch & Poster viewing
Session 3	Membrane & membrane proteins (Chair : Emily Liman)
14:10 - 14:50	Cell surface flip-flop of phosphatidylserine is critical for PIEZO1-mediated myotube formation
	Yuji Hara (Kyoto)
14:50 - 15:30	Mechanisms and physiological roles of voltage-sensing phosphatase
	Yasushi Okamura (Suita)
15:30 - 15:50	Coffee break

Session 4 Cutting-edge methodologies (Chair : Daniel Minor)	
15:50 - 16:30	A microsensing system for the <i>in vivo</i> real-time monitoring of local drug kinetics
	Hiroshi Hibino (Niigata)
16:30 - 17:10	Renovating lipid bilayer systems for studying channel-membrane interplays
	Shigetoshi Oiki (Fukui)
17:10 - 17:50	Molecular movie of bacteriorhodopsin captured by a femtosecond x-ray laser
	So Iwata (Kyoto)
18:30 - 20:30	Dinner for invited speakers & informal discussion

Dec 7 (Fri)

Session 5 TRP channels (Chair : Michael Zhu)	
9:00 - 9:40	Structure and function of thermosensitive TRP channels
	Makoto Tominaga (NIPS)
9:40 - 10:20	Changes in redox status activate TRP channels: underlying mechanisms and its significance
	Yasuo Mori (Kyoto)
10:20 - 10:40	Coffee break
Session 6 Special lecture (Chair : Keiji Imoto)	
10:40 - 11:35	Acute oxygen sensing: Mitochondrial signaling to membrane ion channels
	José López-Barneo (Seville, Spain) 45 + 10 min
11:35 - 11:45	Short break
Session 7 Organella channels (Chair : José López-Barneo)	
11:45 - 12:25	Roles of mitochondrial Ca ²⁺ channels/transporters in cellular functions
	Ayako Takeuchi (Fukui)
12:25 - 13:05	1 min Flash Talks of Poster Presentations #2 (Even numbers)
13:05 - 14:10	Lunch & Poster viewing
14:10 - 14:50	Structural basis of function and regulation of the endolysosomal calcium channel TRPML3
	Jian Yang (New York, USA)
Session 8 Potassium channels (Chair : Geoffrey Abbott)	
14:50 - 15:30	Infrared spectroscopy for analyzing ion-protein interactions of ion channels
	Yuji Furutani (Nagoya)
15:30 - 15:50	Coffee break
15:50 - 16:30	Ion channel chemical biology: Driving a wedge into the heart of a temperature-sensitive ion channel
	Daniel Minor (San Francisco, USA)

16:30 - 17:10	Heteromerization of K2P channels: from physiology to physiopathology
	Guillaume Sandoz (Nice, France)
Session 9 Poster session	
17:10 - 19:00	Poster session with coffee
19:00 - 20:45	Party for all participants & informal discussion

Dec 8 (Sat)

Session 10 Sodium channels (Chair : Baron Chanda)	
9:00 - 9:40	Voltage-gated Na channel -The structural function relationship and the channelopathy -
	Tomoya Kubota (Suita)
9:40 - 10:20	Molecular mechanisms of the depolarization-induced potentiation of Two-Pore Na ⁺ channel 3 (TPC3)
	Takushi Shimomura (NIPS)
10:20 - 10:40	Coffee break
Session 11 New channels and taste perception (Chair : Yasushi Okamura)	
10:40 - 11:20	Otopetrins encode proton-selective ion channels in the taste system
	Emily Liman (Los Angeles, USA)
11:20 - 12:00	CALHMs: Fast-activating voltage-gated ATP channels for rapid purinergic neurotransmission
	Akiyuki Taruno (Kyoto)
12:00 - 13:00	Lunch & Poster viewing
Session 12 Ion channels in synaptic transmission (Chair : Jian Yang)	
13:00 - 13:40	Structural mechanisms of gating in ionotropic glutamate receptors
	Alexander Sobolevsky (New York, USA)
13:40 - 14:20	Presynaptic ion channels and plasticity
	Lu-Yang Wang (Toronto, Canada)
14:20 - 15:00	Excitatory neurotransmission mediated by TRPC4 channels
	Michael Zhu (Houston, USA)
15:00 - 15:05	Closing remarks
	Keiji Imoto (Director General, NIPS)