

ASLLA Symposium 2022

“Mechanotransduction and Pain”

Date: Oct 4~7th, 2022

Venue: KIST Gangneung

Day 1 (Oct 4 th)		
12:00 ~ 13:00	Arrival / Check-in	
13:00 ~ 13:10	Open Remarks (Uhtaek Oh, KIST)	
13:10 ~ 15:30	Session 1: Pain in the complex systems (Chair: Sugbae Oh)	
13:10 ~ 14:00	Amygdala and Pain (Min Zhuo, Toronto U) *Video Conferencing	
14:00 ~ 14:50	Structural plasticity in neural pathways and peripheral miswiring of sensory end organs in neuropathic pain (Rohini Kuner, Heidelberg U) *Video Conferencing	
14:50 ~ 15:20	fMRI Mapping of Pain in CNS (Chungwan Woo, IBS)	
15:20 ~ 15:50	Pain and Immune System (Sugbae Oh, SNU)	
15:50 ~ 16:10	Coffee Break	
16:10 ~ 18:00	Session 2: Mechanobiology (Chair: Yan Jie)	
16:10 ~ 17:00	The mechanical activation of talin and vinculin (Yan Jie, NUS)	
17:00 ~ 17:30	Integrins and Force Sensing Proteins (Chungho Kim, Korea U)	
17:30 ~ 18:00	Cell Mechanobiology (Donghee Kim, Korea U)	
18:00 ~ 21:00	Welcome Dinner	

Day 2 (Oct 5 th)		
	09:30 ~ 12:40	Session 3: Ion channels in Pain (Chair: Myungha Yoon)
	09:30 ~ 10:10	Anoctamin 1 in Itch and Pain (Uhtaek Oh, KIST)
	10:10 ~ 11:00	National Institute for Physiological Sciences Exploratory Research Center on Life and Living Systems (Makoto Tominaga, NIPS)
	11:00 ~ 11:30	New TRP channel Tuner GPRs for Pain Modulation (Sun Wook Hwang, Korea U)
	11:30 ~ 12:20	From Genes to Analgesic Drugs (John Wood, UCL)
	12:20 ~ 13:10	Na _v 1.7 Blockers for Pain Treatment (Sungyoung Kim, IN Therapeutics)
	13:10 ~ 14:30	Luncheon
	14:30 ~ 16:30	Session 4: Mechanosensitive ion channels 1 (Chair: Uhtaek Oh)
	14:30 ~ 15:20	Next Generation Gene Therapies for Genetic Hearing Loss (Jeffrey Holt, Harvard U.)*Video Conferencing
	15:20 ~ 16:10	Feeling Force with PIEZOs (Bailong Xiao, Tsing Hua U.)*Video Conferencing
	16:10 ~ 17:00	Collective behavior of force-gated ion channels (Eric Honore, CNRS)
	17:00 ~ 17:30	Mechanosensitive Piezo Channel, PEZO-1, Regulates Food Deglutition in <i>C. elegans</i> (Kyuhyung Kim, DGIST)
	17:30 ~ 18:20	Tentonin 3, a mechanosensitive channel: its biophysics and physiology (Uhtaek Oh, KIST)
	18:20 ~ 21:00	Dinner

Day 3 (Oct 6 th)		
------------------------------	--	--

09:30 ~ 12:10		Session 5: Mechanosensitive ion channels 2 (Chair: C. Justin Lee)
09:30 ~ 10:20		3.8 billion years of mechanosensory transduction: 'What is true for E. coli true for the elephant' (Boris Martinac, Victor Chang Cardiac Res Inst)
10:20 ~ 11:10		Ultrasonogenetic Neuromodulation via Astrocytic TRPA1 (C. Justin Lee, IBS)
11:10 ~ 11:40		Tentonin 3 and Cytoskeletons (Gyusang Hong, KIST)
11:40 ~ 12:10		Artificial Mechanosensor (Taesong Kim, KIST)
12:10 ~ 13:10		Luncheon
13:00 ~ 18:00		Group Discussion
18:00 ~ 21:00		Banquet in Kangneung city

Day 4 (Oct 7 th)		
------------------------------	--	--

10:00 ~	Excursion
---------	-----------