

June 17 (Mon)			
Session 0: Quality of Lipids in Biological Systems (LipoQuality Satellite Symposium)			
LIPO	9:15-9:20	Makoto Arita (JPN)	Opening remarks of LipoQuality satellite symposium
	9:20-9:40	Chair: Takehiko Sasaki (JPN)	
	9:40-10:00	Makoto Arita (JPN)	The importance of Lipid Quality (LipoQuality) in biological systems
	10:00-10:20	Takehiko Yokomizo (JPN)	Leukotriene B4 receptors
	10:20-10:40	Yukihiko Sugimoto (JPN)	Prostaglandin actions and LipoQuality
10:40-11:00 Coffee Break			
LIPO	10:40-11:10	Chair: Toyoshi Fujimoto (JPN)	
	11:10-11:30	Edward Dennis (USA)	Phospholipase A2s and lipid mediators
	11:30-11:50	Makoto Murakami (JPN)	LipoQuality regulation by the PLA2 family
	11:50-12:00	Jurken Aoki (JPN)	LipoQuality of lysophospholipids
	12:00-12:30	Group Photo	
12:00-13:00 Lunch			
LIPO	13:00-13:30	Chair: Yukihiko Sugimoto (JPN)	
	13:30-13:50	Michio Murata (JPN)	Chemistry-based approach to lipid-protein interaction in biomembranes
	13:50-14:10	Takehiko Sasaki (JPN)	LipoQuality of phosphoinositides
	14:10-14:30	Yasushi Okamura (JPN)	Recognition of LipoQuality by membrane proteins
	14:30-14:50	Toyoshi Fujimoto (JPN)	Phospholipid landscape in cellular membranes
14:50-15:20 Coffee Break			
LIPO	14:50-15:20	Chair: Takehiko Yokomizo (JPN)	
	15:20-15:40	Benjamin Cravatt (USA)	Chemical proteomic mapping of lipid pathways in human disease
	15:40-16:00	Noriko Toyama-Sorimachi (JPN)	Membrane lipid metabolism and innate immune responses
	16:00-16:20	Yutaka Yatani (JPN)	Lysophospholipids: from bench to clinic & from clinic to bench
	16:20-16:40	Mitsutoshi Setou (JPN)	Mass Spectrometry based imaging of LipoQuality
16:40-17:00 How to manage big data regarding lipidomics and LipoQuality			
ICBL	18:00-18:05	Christian Wolfrum (Switzerland)	Opening of the 60th ICBL
	18:05-18:10	Makoto Arita (JPN)	Introduction of the Laurens Van Deenen Lecture
	18:10-19:00	Keizo Inoue (JPN)	The Lawrence Van Deenen Lecture of 2019
	19:10-20:40	Welcome Reception	

12:00-18:00
ICBL
registration

June 18 (Tue)			
ICBL	8:50-9:00	Makoto Arita (JPN)	Welcome Address
	Session 1: Lipid mediator biology (1): LipoQuality joint session		
ICBL	Chair: Charles Serhan (USA), Anna Nicolaou (UK)		
	9:00-9:30	Charles Serhan (USA)	Novel SPM neural circuit in the resolution of inflammation
	9:30-10:00	Anna Nicolaou (UK)	Mediator lipidome dynamics in cutaneous inflammation
	10:00-10:20	Yoshihiro Yoshihara (JPN)	A sexy scent of prostaglandin: olfactory receptor for pheromonal PGF _{2α} mediates courtship behavior in male zebrafish
	10:20-10:40 Coffee Break		
ICBL	Session 2: Lipid mediator biology (2): LipoQuality joint session		
	Chair: Long Nguyen (Singapore), Gabor Tigyi (USA)		
	10:40-11:10	Long Nguyen (Singapore)	Discovery of lysophospholipid transporters
	11:10-11:30	Anthony S Don (Australia)	Loss of sphingosine 1-phosphate in Alzheimer's Disease impedes amyloid formation but enhances hippocampal volume loss, oligodendrocyte death, and memory deficit
	11:30-11:50	Gabor Tigyi (USA)	The autotaxin-LPA ₂ -axis mediates cancer therapy-induced therapy resistance by reprogramming the tumor microenvironment
12:00-13:00 Lunch + Poster viewing			
ICBL	Session 3: Metabolic diseases; Stefano Romeo (SWE)		
	Chair: Stefano Romeo (SWE), Bernd Helms (NLD)		
	13:00-13:30	Stefano Romeo (SWE)	PNPLA3 and hepatic steatosis
	13:30-14:00	Hiroaki Arai (JPN)	Lysophosphatidylacyltransferase 1 (LPIAT1) deficiency causes steatosis
	14:00-14:20	Katsuhiko Funai (USA)	Mitochondrial PE potentiates respiratory enzymes to amplify skeletal muscle aerobic
14:20-14:40	Bernd Helms (NLD)	Molecular mechanisms of lipid droplet formation in professional lipid storing cells	
14:40-15:00 Coffee Break			
ICBL	Session 4: Lipid membrane biology		
	Chair: Takanari Inoue (USA), Wonhwa Cho (USA)		
	15:00-15:30	Takanari Inoue (USA)	Uncharacterized functions of PI 3-kinase
	15:30-16:00	Wonhwa Cho (USA)	Quantitative <i>in situ</i> imaging of cellular lipids and membrane curvature
	16:00-16:20	Shiro Suetsumu (JPN)	The mode switch of endophilin membrane deformation based on packing-defects and electrostatic charge
16:20-16:40	Kazumitsu Ueda (JPN)	Physiological functions of human ABCA1 and ABCA7	
16:50-17:50 Poster session 1			
ICBL	Special Lecture 1 (sponsored by Shimadzu)		
	18:00-18:45	Chair: Takehiko Yokomizo (JPN)	Roles of polyunsaturated fatty acids in living systems: from mediators to membrane

June 19 (Wed)			
ICBL	Session 5: Bioscience of ω3 PUFA (Mochida Sponsored Session)		
	Chair: Richard Bazinet (CAN), Jing Kang (USA)		
	9:00-9:30	Richard Bazinet (CAN)	The application of compound specific isotope ratio analysis to study polyunsaturated fatty acid metabolism in rodents and human
	9:30-10:00	Jing Kang (USA)	Multi-omics analysis of unique transgenic animal models uncovers the tissue omega-6/omega-3 fatty acid imbalance as a critical risk factor for chronic disease
	10:00-10:20	Jun Ogawa (JPN)	Novel health-promoting dietary fatty acid metabolites produced by gut microorganisms
10:20-10:40 Coffee Break			
ICBL	Session 6: Lipidomics: SCIEX joint session		
	Chair: Markus Wenk (Singapore), Valerie O'Donnell (UK)		
	10:40-11:10	Markus Wenk (Singapore)	Translation of lipidomic technologies towards quantification of blood lipid
	11:10-11:40	Valerie O'Donnell (UK)	Dysregulation of the lysophospholipid/autotaxin axis defines the cardiovascular risk SNP rs10757274 on chromosome 9p21
	11:40-12:00	Takashi Baba (CAN)	Structural multi-class lipidomics using electron impact dissociation mass spectrometry
12:00-13:00 Lunch + Poster viewing			
13:00-14:00 Poster session 2			
ICBL	Session 7: Lipases and Phospholipases		
	Chair: Gerard Lambeau (FRA), Eric Boilard (CAN)		
	14:00-14:30	Gerard Lambeau (FRA)	sPLA2s and PLA2R1: focus on host defense and autoimmunity
	14:30-15:00	Eric Boilard (CAN)	sPLA2 actions on extracellular vesicles and microbiome
	15:00-15:20	Kei Yamamoto (JPN)	Group IIF phospholipase A ₂ /lysoplasmalogen axis is a novel drug target for epidermal-hyperplastic diseases
15:20-15:40	Vesa M. Olkkonen (FIN)	ORP2, a cholesterol transporter, controls endothelial cell polarization and angiogenic tube formation <i>in vitro</i>	
15:40-16:00 Coffee Break			
ICBL	Session 8: Lipid signaling		
	Chair: Joan Claria (Spain), Seyun Kim (Korea)		
	16:00-16:30	Joan Claria (Spain)	Role of SPMs in chronic liver diseases
	16:30-17:00	Seyun Kim (Korea)	Regulatory action of inositol pyrophosphate in the control of synaptic vesicle membrane cycling
	17:00-17:20	Nan Chiang (USA)	Pro-resolving receptors: mechanisms and signaling
17:20-17:40	Yusuke Endo (JPN)	ACC1 determines memory potential of individual CD4+ T cells by regulating de novo fatty acid biosynthesis	
17:40-18:00 Coffee Break			
ICBL	Special Lecture 2 (sponsored by Ono Pharmaceutical)		
	18:00-18:45	Chair: Yukihiko Sugimoto (JPN)	Prostaglandins: inflammation and beyond

June 20 (Thu)			
ICBL	Session 9: Lipids in infection (1): AMED-Lipid joint session		
	Chair: Kentaro Hanada/Sho Yamasaki (JPN)		
	8:50-9:00	Shinji Yokoyama (JPN)	Introduction of AMED-Lipid
	9:00-9:30	Kyu Y Rhee (USA)	The many tubercles of <i>Mycobacterium tuberculosis</i> : Tall tales of the tuberculous bacillus
	9:30-9:55	Sho Yamasaki (JPN)	Sensing infectious and injurious stimuli by immune receptors for lipid
9:55-10:20	Kentaro Hanada (JPN)	Hijacking of the ceramide transport protein CERT by <i>Chlamydia trachomatis</i> , an obligatory intracellular bacterium	
10:20-10:40	Kazutaka Ikeda (JPN)	Multi-lipidomics for grasping metabolic crosstalk between host and intestinal bacteria	
10:40-11:00 Coffee Break			
ICBL	Special Lecture 3 (AMED sponsored)		
	11:00-11:45	Chair: Shinji Yokoyama (JPN)	Phospholipid flippase and scramblase
11:45-14:00 Lunch			
AMED Session on June 20 for ICBL2019 at Hitotsubashi Hall, Tokyo.			
AMED	Energy Metabolism and Cell Biology (1) (AMED-Lipid joint session)		
	Chair: Hitoshi Shimano/Yasushi Tamura (JPN)		
	14:00-14:30	Dennis Vance (CAN)	Phospholipid methylation: obesity, insulin resistance and hepatic pathology
	14:30-14:50	Motohiro Sekiya (JPN)	A metabolite sensor CtBP2 integrates metabolic flux to orchestrate glucose and lipid homeostasis in liver
	14:50-15:15	Hitoshi Shimano (JPN)	A novel aspect of fatty acid chain length in lipotoxicity: Lessons from Elovl6 KO mice
15:15-15:35	Yumiko Oh-ishi (JPN)	Coordinated mechanism of cellular lipid metabolism and inflammatory response in macrophage	
15:35-16:00 Coffee Break			
AMED	Regulation of Lipid Metabolism in Cell Biology (2) (AMED-Lipid joint session)		
	Chair: Yasushi Tamura/Hitoshi Shimano (JPN)		
	16:00-16:30	Sam Vitae (UK)	Mitochondrial morphology and function
	16:30-16:50	Yasushi Tamura (JPN)	Roles of phospholipid transport in mitochondrial biogenesis
	16:50-17:10	Futoshi Saito (JPN)	A novel detection system of phosphatidylinositol 3-phosphate for molecular imaging
17:10-17:40	Neale Ridgway (CAN)	The OSBP-related proteins ORP1L and ORP1 form a relay pathway that delivers LDL-cholesterol to the plasma membrane	
17:40-18:00	Fubito Nakatsu (JPN)	Countertransport of lipids at membrane contact sites	
18:00-19:30 Break			
19:30-21:30 Banquet			

Excursion

June 21 (Fri)			
ICBL	Session 10: Lipidomics: new technology and application		
	Chair: Xianlin Han (USA), Daniel Nomura (USA)		
	8:50-9:20	Xianlin Han (USA)	Lipid metabolism, shotgun lipidomics, and translational medicine
	9:20-9:50	Daniel Nomura (USA)	Mapping drivers of disease using chemoproteomic and metabolomic platform
	9:50-10:10	Shuntaro Hara (JPN)	Role of acyl-CoA synthetase ACSL4 in inflammatory reaction
10:10-10:30	Xue Li Guan (Singapore)	Probing the bacterial lipidome - A biochemical treasure trove	
10:30-10:45 Coffee Break			
ICBL	Session 11: Young investigators session (Avanti Sponsored Session)		
	Chair: Makoto Murakami (JPN), Yukihiko Sugimoto (JPN)		
	10:45-11:00	Mélanie Dacheux (FRA)	Human group IIA secreted phospholipase A2 controls parasite development during malaria infection
	11:00-11:15	Toshiaki Hirakata (JPN)	Deficiency of BLT1, the high-affinity receptor for LTB ₄ , alleviates allergic conjunctivitis
	11:15-11:30	Hui-Hsing Hung (JPN)	The mechanism and roles of phosphatidylglycerol biosynthesis
11:30-11:45	Yudai Iino (JPN)	Untargeted lipidomics revealed dysregulated ceramide metabolism in the initiation phase of atopic dermatitis	
11:45-12:00	Bing Peng (Germany)	A workbench to probe the lipidomic landscape	
12:00-12:15	Takayuki Kishi (JPN)	Identification of a new oxidized phospholipid receptor that regulates respiratory pattern via vagal nerve	
12:15-12:30	Paul Baker (USA)	The challenges of quantitative lipidomics	
12:30-13:30 Lunch			
ICBL	Session 12: Sphingolipids		
	Chair: Maurizio Del Poeta (USA), Anthony Futerman (Israel)		
	13:30-14:00	Anthony Futerman (Israel)	What is the role of the six mammalian ceramide synthases?
	14:00-14:30	Maurizio Del Poeta (USA)	Ceramide synthase and fungal infection
	14:30-14:50	Aiko Kihara (JPN)	Molecular mechanism producing the skin barrier lipid acylceramide
14:50-15:10	Sungwhan F Oh (USA)	Gut symbiotic alpha-galactosylceramides: Molecular and structural characterization of host immunomodulatory actions	
15:10-15:25 Break			
ICBL	Special Lecture 4 (sponsored by Ono Pharmaceutical)		
	15:25-16:10	Chair: Makoto Ito (JPN)	Sphingolipids from basic to applied research
ICBL	16:10-16:50	Yasuyuki Igarashi (JPN)	Closing remarks, prize giving and invitation to ICBL2020(Utrecht)
	17:00	End of the Conference	