**June 17 (Mon)**

**Session 1: Lipid mediator biology (1): Lipidomics Joint Session**

- **Chair:** Charles Serhan (USA), Anna Nicolaou (UK)
- **9:00-9:30** Charles Serhan (USA) Novel SPIN neural circuit in the resolution of inflammation
- **9:30-10:00** Anna Nicolaou (UK) Mediator lipidomics in cutaneous inflammation
- **10:00-10:30** Takahiro Hase (JPN) Unusual lipid analysis of the transgenic mouse model: the long-term effects of a low-LDL diet on lipid metabolism

**Session 2: Lipid mediator biology (2): Lipidomics Joint Session**

- **Chair:** Long Nguyen (Singapore), Gabor Tigo (USA)
- **10:45-11:00** Long Nguyen (Singapore) Discovery of lyso-phospholipid transporters
- **11:00-11:30** Anthony S. Don (Australia) Loss of sesquiterpene synthase activity in the human skin barrier
- **11:30-11:50** Gabor Tigo (USA) The autolysosome-LPS-activated cancer therapy induced therapy resistance by reprogramming the tumor microenvironment

**Session 3: Metabolic diseases**

- **Chair:** Stefano Romeo (Italy), Hendrik Nolte (Germany)
- **10:00-10:30** Stefano Romeo (Italy) PNPLA3 and hepatic steatosis
- **10:30-11:00** Hironori Arai (Japan) Lysophospholipidase deficiency in lipodystrophy

**Session 4: Lipid metabolism**

- **Chair:** Takahiro Hase (JPN), Wonhwa Cho (USA)
- **10:40-10:55** Takahiro Hase (JPN) Unusual lipid analysis of the transgenic mouse model: the long-term effects of a low-LDL diet on lipid metabolism

**Special Lecture 1:**

- **11:30-12:00** Takahiro Hase (JPN) Roles of polyunsaturated fatty acids in living systems: from membranes to membrane

**Chair:** Stefano Romeo (Italy), Bernd Helms (Netherlands)

**Chair:** Richard Bazinet (Canada), Jing Kang (USA)

**Session 5: Lipid nutrition (Mochida Sponsored Session)**

- **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

**Session 6: Lipidomics (SCIEX joint session)**

- **Chair:** Mark Wu (Singapore), Milos Marinkovic (Sweden)
- **10:40-11:10** Mark Wu (Singapore) Translation of lipidomics technologies towards quantification of blood lipids
- **11:10-11:40** Masahiro Iwai (Japan) Synthesis of the first octapeptide lipid mediator: discovery of the cardiovascular risk SNP rs7575374 on chromosome 8q21
- **11:40-12:00** Tatsuya Iwama (Japan) Structural multi-class lipidomics using electron impact dissociation mass spectrometry

**Special Lecture 3 (AMED sponsored)**

- **11:30-12:00** Shigekazu Nagata (Japan) Phospholipid Flippase and Scramblase

**Chair:** Gerard Lambeau (France), Eric Boilard (Canada)

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**Session 7: Lipid signaling**

- **Chair:** Jean-Claude Sésé, Sevin Kim (KOR)
- **16:30-16:55** Jean-Claude Sésé (France) Role of SMRs in chronic liver diseases
- **16:55-17:20** Sevin Kim (KOR) Regulatory action of phosphatidylserine receptors in the control of synaptic vesicle cycling
- **17:20-17:40** Non Xia (China) Pro-resolving receptors: mechanisms and signaling

**Special Lecture 2 (sponsored by Dino Pharmaceutical)**

**Chair:** Yasser Elbashir (Japan) ACAT determines memory potential of individual CD4+ T cells by regulating de novo fatty acid biosynthesis

**Session 8: Lipidomics Joint Session**

- **Chair:** Shigeki Yamasaki (Japan)
- **10:00-10:30** Shigeki Yamasaki (Japan) Novel health-promoting dietary fatty acid metabolites produced by gut microbiota

**Chair:** Xianlin Han (USA), Daniel Nomura (USA)

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**Session 9: 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
- **9:20-9:30** Daniel Nomura (USA) Lipidomics: spatial metabolomics, metabolic pathways, and lipoprotein profiling
- **9:30-9:50**('>1020)

**Chair:** Charles Serhan (USA), Anna Nicolaou (UK)

**Session 10: Lipid mediator biology (3): LipoQuality joint session**

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