

『Logic of life: ion channel structure, function and physiology』

9:15–10:00 Registration

10:00–10:10 Opening Remarks: **Hideo Miyahara** (Osaka University)

10:10–10:20 Welcome Address: **Denis Noble** (University of Oxford)

I.

Chair: Mitsuhiro Yamada

10:20–10:30 “ACh activation cardiac potassium channel”

Yoshihisa Kurachi (Osaka University)

II. Special Lecture

Chair: Mitsuhiro Yamada

10:30–11:20 “Patch Clamp Samurai: Ion Channels in Organelles”

David Clapham (Howard Hughes Medical Institute)

III.

Chair: Hiroshi Hibino

11:20–11:50 “An integrative approach to investigating the arrhythmic TRPM4 channelopathy”

Ryuji Inoue (Fukuoka University)

11:50–12:20 “Physiology of Redox-Sensitive TRP Channels”

Yasuo Mori (Kyoto University)

12:20–12:50 “Basic and clinical studies toward the precision medicine”

Hiroshi Suzuki (The University of Tokyo Hospital)

12:50–13:20 “AI-Driven Systems Biology”

Hiroaki Kitano (The Systems Biology Institute, Sony Computer Science Laboratories, Inc.)

13:20–14:30 Lunch Break

IV. Special Lecture

Chair: Yasuo Mori

14:30–15:20 “Structural physiology of channels”

Yoshinori Fujiyoshi (Nagoya University)

V.

Chair: Masaru Ishii

15:20–15:50 “Molecular mechanisms underlying spatiotemporal regulation of L-type Ca²⁺ channels in muscles”

Mitsuhiro Yamada (Shinshu University)

15:50–16:20 “GIRK channels: a common target for adrenergic and muscarinic regulation of rat atria and pulmonary veins”

Ian Findlay (University of Tours)

16:20–16:30 Coffee Break

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VI.

Chair: Atsushi Inanobe

16:30–17:00 “Intravital multiphoton imaging dissecting immune cellular dynamics in vivo”

Masaru Ishii (Osaka University)

17:00–17:30 “Measurement and analysis of nanoscale vibrations in the inner ear”

Hiroshi Hibino (Niigata University)

VII. **Special Lecture**

Chair: Hiroshi Suzuki

17:30–18:20 “Titin folding powers muscle contraction”

Julio M.Fernández (Columbia University)

18:20–18:30 Closing Remarks: **Shojiro Nishio** (Osaka University)

memo
