

# Osaka Mito 2024



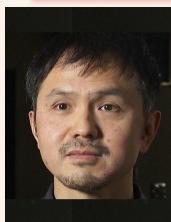
## International Workshop on Mitochondrial Sciences

Dates: Monday, November 18 – Tuesday, November 19

Place: Hankyu Railway / Sanwa Bank Hall | Icho Kaikan | Osaka University

### Invited Speakers

Organizer: Koji Okamoto (Osaka University, Suita, Japan)



**Hiromi Sesaki**  
Johns Hopkins University

Mitochondrial division GTPase shapes the ER



**Takumi Koshiba**  
Fukuoka University

Structural basis of mitochondrial scaffolds by prohibitin complexes



**Christoph Gerle**  
RIKEN SPring-8 Center

A planar dimer of bovine F-ATP synthase



**Yuhei Araiso**  
Kanazawa University

Structures and dynamics of molecular machineries regulating mitochondrial fusion and fission



**Hirotaka Kanon**  
Osaka University

Ca<sup>2+</sup>-induced mitochondrial fusion under stress condition



**Takuya Norizuki**  
Gunma University

Toward understanding the unique dynamics of sperm mitochondria



**Andre Elias Djalalvandi**  
University of Padova

Opantimirs, a class of antagonizing microRNAs that upregulate Opa1 levels, improve mitochondrial and disuse myopathies



**Yoshihito Kishita**  
Kindai University

Genetic diagnosis, pathogenesis and treatment of mitochondrial diseases



**Keiko Iwata**  
Wakayama Medical University

Alterations in mitochondrial factors and central nervous system disorders



**Soni Deshwal**  
Max Planck Institute for Biology of Ageing

Mitochondria at the crossroads of metabolism and ferroptosis



**Yuichi Matsushima**  
Osaka University

The effects of mitochondrial protein aggregation caused by LONP1 depletion in human cells



**Pal Soumyadip**  
Osaka University

Non-canonical role of ubiquinone in maintaining morphology and function of mitochondrial DNA nucleoids



**Mashun Onishi**  
Max Planck Institute for Biology of Ageing

A guardian against ferroptosis: the stress relay system in impaired mitochondrial proteostasis



**Kunio Nakatsukasa**  
Nagoya City University

Cellular responses to ectopic metabolic stress



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### Program

Organizer: Koji Okamoto (Osaka University, Suita, Japan)

#### Monday, November 18

16:00-16:10 Opening Remarks by **Koji Okamoto** (Osaka U, Suita, Japan)

**Plenary talk: Multifaceted mitochondria** Discussion Leader: **Koji Okamoto** (Osaka U, Suita, Japan)

16:10-17:00 **Hiromi Sesaki** (Johns Hopkins U, Baltimore, USA)

*Mitochondrial division GTPase shapes the ER*

#### Tuesday, November 19

**Session I: Complexes** Discussion Leader: **Keisuke Takeda** (Osaka U, Toyonaka, Japan)

09:00-09:30 **Takumi Koshiba** (Fukuoka U, Fukuoka, Japan)

*Structural basis of mitochondrial scaffolds by prohibitin complexes*

09:30-10:00 **Christoph Gerle** (RIKEN SPring-8 Center, Sayo, Japan)

*A planar dimer of bovine F-ATP synthase*

10:00-10:20 Morning Coffee/Tea Break

**Session II: Dynamics** Discussion Leader: **Emi Ogasawara** (Osaka U, Toyonaka, Japan)

10:20-10:50 **Yuhei Araiso** (Kanazawa U, Kanazawa, Japan)

*Structures and dynamics of molecular machineries regulating mitochondrial fusion and fission*

10:50-11:20 **Hirotaka Kanon** (Osaka U, Toyonaka, Japan)

*Ca<sup>2+</sup>-induced mitochondrial fusion under stress condition*

11:20-11:50 **Takuya Norizuki** (Gunma U, Maebashi, Japan)

*Toward understanding the unique dynamics of sperm mitochondria*

11:50-13:00 Group Photo and Lunch



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Tuesday, November 19

**Session III: Physiology** Discussion Leader: **Masafumi Noguchi** (Wakayama Medical U, Wakayama, Japan)

13:00-13:30 **Andre Elias Djalalvandi** (U Padova, Padova, Italy)

*Opantimirs, a class of antagonizing microRNAs that upregulate Opa1 levels, improve mitochondrial and disuse myopathies*

13:30-14:00 **Yoshihito Kishita** (Kindai U, Higashiosaka, Japan)

*Genetic diagnosis, pathogenesis and treatment of mitochondrial diseases*

14:00-14:30 **Keiko Iwata** (Wakayama Medical U, Wakayama, Japan)

*Alterations in mitochondrial factors and central nervous system disorders*

14:30-14:50 Afternoon Coffee/Tea Break

**Session IV: Maintenance** Discussion Leader: **Mashun Onishi** (MPI, Cologne, Germany)

14:50-15:20 **Soni Deshwal** (Max Planck Institute, Cologne, Germany)

*Mitochondria at the crossroads of metabolism and ferroptosis*

15:20-15:50 **Yuuichi Matsushima** (Osaka U, Toyonaka, Japan)

*The effects of mitochondrial protein aggregation caused by LONP1 depletion in human cells*

15:50-16:20 **Pal Soumyadip** (Osaka U, Toyonaka, Japan)

*Non-canonical role of ubiquinone in maintaining morphology and function of mitochondrial DNA nucleoids*

16:20-16:40 Evening Coffee/Tea Break

**Session V: Turnover** Discussion Leader: **Christoph Gerle** (RIKEN SPring-8 Center, Sayo, Japan)

16:40-17:10 **Mashun Onishi** (Max Planck Institute, Cologne, Germany)

*A guardian against ferroptosis: the stress relay system in impaired mitochondrial proteostasis*

17:10-17:40 **Kunio Nakatsukasa** (Nagoya City U, Nagoya, Japan)

*Cellular responses to ectopic metabolic stress*

17:40-17:50 Closing Remarks by **Koji Okamoto** (Osaka U, Suita, Japan)

