



Mitochondria and/or the Cardiovascular System: Insights into Physiology, Pathology, and Therapeutics

Date: Thursday, May 15

Venue: Daikougi-Hall, School of Pharmaceutical Sciences, Wakayama Medical University
25-1 Shichibancho, Wakayama 640-8156, Japan

Invited Speakers

- **Luca Scorrano**, University of Padua, Italy
 - **Maurilio Sampaolesi**, KU Leuven, Belgium
 - **Martina Semenzato**, University of Padua, Italy
 - **Jonathan Lambert**, University of Padua, Italy
 - **Hualin Fan**, University of Padua, Italy
 - **Tomoe Y. Nakamura-Nishitani**, Wakayama Medical University, Japan
 - **Koji Okamoto**, Osaka University, Japan
 - **Daisuke Shimura**, Waseda University, Japan
 - **Keisuke Takeda**, Osaka University, Japan
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WAKAYAMITO 2025 Organizing Committee

Chair: **Keiko Iwata** (Wakayama Medical University)

Members: **Koji Okamoto** (Osaka University), **Norihito Shintani**, **Tomoe Y. Nakamura-Nishitani**, **Masafumi Noguchi** and **I-Shan Chen** (Wakayama Medical University)

This event is supported by Wakayama Medical University and The Japanese Pharmacological Society.



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Program

- 12:00-12:05 Opening Remarks by **Keiko Iwata** (Wakayama Medical University, Japan)
- 12:05-12:10 Welcome Address by the Dean
Prof. Shigeru Ohta, Dean of the School of Pharmaceutical Sciences, Wakayama Medical University
- Luncheon seminar** Chairs: **Norihito Shintani & Tomoe Y. Nakamura-Nishitani**
(Wakayama Medical University, Japan)
- 12:10-12:50 **Luca Scorrano** (University of Padua, Italy)
Keeping mitochondria in shape: a matter of life and death
- 12:50-13:30 **Maurilio Sampaolesi** (KU Leuven, Belgium)
3D human cardiac models for Duchenne cardiomyopathy and drug screening
- 13:30-14:00 **Meet the professors**
- Session I** Chair: **Masafumi Noguchi** (Wakayama Medical University, Japan)
- 14:00-14:20 **Koji Okamoto** (Osaka University, Japan)
Atypical dynamics of mitochondria and autophagy during lipid droplet formation
- 14:20-14:40 **Keisuke Takeda** (Osaka University, Japan)
Defining mitochondrial quality maintenance based on lateral separation of unfolded proteins
- 14:40-15:00 **Daisuke Shimura** (Waseda University, Japan)
A small isoform with powerful functions protecting mitochondria against ischemia/reperfusion injury
- 15:00-16:00 **Poster presentations** Chair: **I-Shan Chen** (Wakayama Medical University, Japan)
- Session II** Chair: **Keiko Iwata** (Wakayama Medical University, Japan)
- 16:00-16:20 **Martina Semenzato** (University of Padua, Italy)
Intermittent fasting: a strategy to improve heart failure in OPA1-ablated cardiomyocytes
- 16:20-16:40 **Jonathan Lambert** (University of Padua, Italy)
The biological multi-fuel engine: how different carbon sources shape the interactomes of the mitochondrial cristae-shaping protein Opa1
- 16:40-17:00 **Hualin Fan** (University of Padua, Italy)
VWA8 modulates mitochondria-sarco/endoplasmic reticulum contacts in β -adrenergic agonist-induced cardiac hypertrophy
- 17:00-17:10 Coffee break
- Closing seminar** Chair: **Koji Okamoto** (Osaka University, Japan)
- 17:10-17:50 **Tomoe Y. Nakamura-Nishitani** (Wakayama Medical University, Japan)
Genetic and Environmental Factors Regulating Cardiac and Mitochondrial Function and Dysfunction
- 17:50-18:00 Closing Remarks by **Keiko Iwata** (Wakayama Medical University, Japan)
- 18:00-20:00 **Information Sharing Meeting**

Participants: Students, faculty members, researchers, and the general public

Language: English

Participation Fee: Free of charge (except for the Information Sharing Meeting)

Pre-registration is required for the Information Sharing Meeting (Deadline: Tuesday, April 22nd)

Poster Presentation

- Topics related to mitochondrial and/or cardiovascular science are welcome.
- Please contact us for details, as pre-registration is required.
(Deadline: Tuesday, April 22nd)
- The winner of the Poster Award will be selected by a jury vote.

QR Code for Registration



Free Provisions

- Lunch box for poster presenters
- Refreshments for students (limited to 100)

Contact:

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