

OsakaMito2018

International FBS seminar on Mitochondrial Dynamics

Date: 14:00-17:00 on Tuesday, December 4

Place: 2F Seminar Room | Biosystems Building | Graduate School of Frontier Biosciences | Osaka University

Invited Speakers



Yasushi Tamura

Yamagata University, Yamagata, Japan

Maintenance of cardiolipin and crista structure requires cooperative functions of mitochondrial dynamics and phospholipid transport

Mitochondria are highly dynamic organelles that constantly fuse and divide to maintain their proper morphology, which is essential for their normal functions. In this talk, I will introduce our findings about novel relationships among mitochondrial fusion/division dynamics, crista formation and cardiolipin maintenance.



Hiromi Sesaki

Johns Hopkins University, Baltimore, MD, USA

Mitochondrial dynamics in fatty liver disease

Fatty liver disease is one of the most significant and fastest growing health problems in many countries. I will discuss our recent findings about the role of mitochondrial dynamics and mitophagy in the pathogenesis of this devastating disease.



Ye Tian

Institute of Genetics and Developmental Biology, Beijing, China

Wnt signaling mediates intercellular mitochondrial stress response

As an organism age, the aging process appears to be coordinated within a whole organism. The mitochondrial unfolded protein response (UPR^{mt}) is activated in response to disturbed mitochondrial proteostasis to promote mitochondrial function and metabolic adaptations. Work in *C. elegans* has demonstrated the capacity for mitochondria to coordinate UPR^{mt} between different tissues during aging. Mechanisms that activate the UPR^{mt} and the identification of how the receipt of this signal may yield new therapeutic targets for age-onset diseases.

Organizer: Koji Okamoto, Graduate School of Frontier Biosciences

No registration is required. Light bites will be served after the workshop (17:00-18:00).

For inquiry, please contact Koji Okamoto (Tel: 06-6879-7970 Email: kokamoto@fbs.osaka-u.ac.jp)

