

# ASHBi SEMINAR

## Regulation of ferroptosis cell death

Lecturer: **Eikan Mishima**, MD, Ph.D.

Senior scientist, Helmholtz Zentrum München, Germany  
Adjunct Instructor, Tohoku University School of Medicine



Date **Wednesday, 7 June 2023**

Time **17:00 – 18:00 [JST]**

\ Hybrid /

Venue **Conference Room / Zoom**

**B1F, Faculty of Medicine Bldg. B**



\*Register via the right QR code

### Abstract

Ferroptosis is a type of non-apoptotic regulated cell death which is hallmarked by iron-mediated unrestrained lipid peroxidation. Ferroptosis has been implicated in a variety of biological contexts and has attracted remarkable attention in recent years as it emerges as a therapeutic target for the treatment of therapy-resistant cancers, degenerative diseases and acute organ injuries. In the decade since the name was created in 2012, research has revealed the regulatory pathways of ferroptosis within the framework of metabolism, ROS biology, and iron biology.

In this talk, I will discuss the historical and recent progress of ferroptosis regulatory pathways, including the involvement of ferroptosis suppressor protein 1 (FSP1), and its contribution in the physiological/pathological conditions. Additionally, taking an evolutionary perspective on the regulatory systems of ferroptosis may provide further insight into the role of ferroptosis in the evolution of life across various species.

### References:

Mishima et al. Nature 2022;608:778

Mishima et al. Preprint in Research Square. doi: 10.21203/rs.3.rs-2190326/v1

Mishima et al. Annu Rev Nutr. 2022;42:275

Organizer : Graduate School of Medicine

Institute for the Advanced Study of Human Biology (WPI-ASHBi)

Contact: Prof. Motoko Yanagita

[E-mail] kidney2011@kuhp.kyoto-u.ac.jp

