

## Dementia 3

### “Biology of cognitive aging across species”

The “Biology of cognitive aging across species” session aims to explore the mechanisms and processes involved in cognitive aging across a range of species, from flies to rodents. Aging is associated with cognitive decline, which can have a significant impact on an individual’s quality of life. By examining the biology of cognitive aging across species, we hope to gain a better understanding of the fundamental mechanisms involved in this process and identify potential interventions that could help to improve cognitive function in aging individuals.

The symposium will cover topics such as the role of gut microbiota, reactive oxygen species, and autophagy/mitophagy in cognitive aging, the impact of dietary nutrients on cognitive aging, and the new technologies of high field fMRI for analyzing microvascular networks in cognitive aging.

Overall, the symposium will provide a comprehensive overview of the biology of cognitive aging across species, highlighting the latest research findings and identifying potential avenues for future research.