



TARA

Life Science Center of
Tsukuba Advanced Research Alliance

TARA Seminar

11:00~, July 10th, 2017

Seminar room, Building A, TARA Center

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Neuronal SIRT1 regulates macronutrient preference

Caloric restriction promotes health in multiple organisms by shifting the priority from reproduction to self-maintenance, which causes a coordinate shift in metabolism, from carbohydrate to fat utilization. The health-promoting effects of caloric restriction are partly mediated by SIRT1, which promotes fat utilization in peripheral tissues. Here, we showed that neuronal SIRT1 shifted the diet selection from sucrose to fat, which matched the peripheral metabolic shift. I will describe the molecular mechanisms involved in the regulation of macronutrient selection by neuronal SIRT1.

Matsui S, Sasaki T* *et al.*, manuscript submitted

Sasaki T*. *Front Endocrinol (Lausanne)* 6:109 (2015)

Susanti VY, Sasaki T* *et al.*, *Obesity* 22(10):2115-9 (2014)

Sasaki T* *et al.*, *Diabetologia* 57(4):819-31 (2014)

Sasaki T *et al.*, *Endocrinology*, 151, 2556-66 (2010)

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This seminar will be held as a part of classes

“World Science Leader’s Seminar” in Ph.D. Program in Human Biology

University of Tsukuba

