67th Seminar
Department of Genetics
Graduate School of Pharmaceutical Sciences
The University of Tokyo

Conditional trade-offs regulate *Drosophila* reproduction and lifespan

Matthew Piper

Associate Professor
Monash University, Australia

In the 1930's, Clive McCay demonstrated that moderate dietary restriction (DR) could extend the lifespan of white rats. Since this time, some form of dietary restriction has been demonstrated to extend lifespan in organisms as diverse as yeast, water striders, flies and monkeys - but how?

In our lab, we are interested in refining the dietary manipulations that modify reproduction and lifespan in *Drosophila melanogaster*, in the hope that these manipulations will grant us insights into the mechanistic basis by which DR extends life. This work has taken us from the effects of calories to the dietary micronutrients. It turns out that the beneficial effects of diet restriction depend on the exact nature of the "diet" and "restriction" that is employed. I will discuss how these data bring us closer to understanding the mechanistic basis of DR.

2024年3月27日(水)

時間:10:30-12:00

場所:薬学部教育研究棟E10セミナー室

連絡先:薬学部遺伝学教室 三浦 正幸(内線24860)