Transporter-mediated steroid hormone transport across cell membranes

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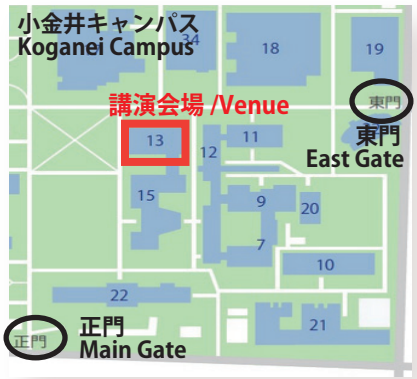
ABSTRACT

The insect steroid hormone ecdysone induces molting and metamorphosis through its interaction with intracellular nuclear receptors. Although it has long been assumed that all steroid hormones can enter their target cells by simple diffusion, we recently demonstrated in the fruit fly Drosophila that a membrane transporter named Ecdysone Importer (EcI) is required for cellular uptake of ecdysone (Okamoto et al., Dev Cell 2018). To further explore physiological significance of transporter-mediated steroid hormone entry into cells, we continued our study and found that EcI has a critical role in the blood-brain barrier during Drosophila brain development. I will present our most recent results and discuss the importance of the steroid hormone importer in insect development and beyond.

■会場／Venue
東京農工大学 小金井キャンパス
13号館 講義室 L1342
Lecture Room L1342, Building 13
Koganei Campus, TUAT



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言語 / 英語 ・ Language / English
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