

**Speaker:**

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Date: Monday, Nov. 02, 2020
Time: 4:00 pm - 4:50 pm
Zoom: 952-3324-4564
Passcode: 835322

Title:

“A membrane transporter facilitates steroid hormone entry into cells – and why it matters to entomologists”

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 (Ecl) is required for cellular uptake of ecdysone. To further explore physiological significance of transporter-mediated steroid hormone entry into cells, we are continuing our study using multiple different systems. I will present our most recent results and discuss the importance of Ecl in insect development and beyond.