

Biology Seminar



Western
UNIVERSITY · CANADA

12:30 - 1:30 pm
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WSC 240



Paloma Gonzalez-Bellido
Assistant Professor
College of Biological Sciences
University of Minnesota

Behavioral strategies and neural adaptations driving visually guided predation in aerial insects

For aerial predatory insects, detecting a fast and small moving target and catching it mid-air is crucial for survival. Such ability is shared with other species, think for example, an outfielder intercepting the ball during a baseball game. Thus, target detection and interception is a task solved by brains of very different complexity. How do miniature insects achieve the necessary sensory performance? Do they all share the same flight strategy and underlying neural algorithm, or have individual species found solutions tailored to their eye size, ecosystem type and phylogeny? In this talk I will present work from my laboratory aimed at answering such questions; we are studying the behavior, sensory performance, eye morphology and neural code of premotor neurons in aerial insect predators.

