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## **23-Neural systems that process visual self-motion cues in larval fish**

*Wednesday 16 February 2022 15:05 (13 minutes)*

We will use larvae that express a genetically encoded calcium indicator in all neurons to image whole-brain responses to translational and rotational optic flow patterns using a custom-built laser-scanning two-photon microscope. Having identified the brain regions responsive to visual motion, we will investigate how and where information from the two visual hemifields is integrated. Given the distinct locomotor patterns of the three species, we aim to test the proposal, derived from computational modeling of zebrafish data, that the observed functional organization reflects the constraints of the visual-locomotor mapping.

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