2020 Heiligenberg Lecture

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SPATIAL LEARNING VIA ACTIVE SENSING:
Evidence for Cell Assemblies in the Fish Telecephalon?

Friday, March 13, 2020
12:00 - 1:00 PM
Fred Kavli Auditorium
Tata Hall

Dr. Maler demonstrated that the study of behavior and network activity of a simple electric fish had the power to reveal fundamental neural principles of perception applicable to higher-level operations in the cortex of mammals. A combination of anatomical, electrophysiological, and computational tools were used to reveal neural mechanisms of feedback input essential for modulating the spatio-temporal filtering of sensory systems.

With the recent discovery of recurrent excitatory circuits in the learning centers of fish, Dr. Maler’s lab now focuses on understanding general network computations for spatial learning by combing computational and experimental investigation in both electric fish and mice.

No Registration Required. Sponsored by the Division of Biological Sciences.