

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

Werblin Lab

RRID:SCR_005251

Type: Tool

Proper Citation

Werblin Lab (RRID:SCR_005251)

Resource Information

URL: <http://mcb.berkeley.edu/labs/werblin/index.html>

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Description: The goal of our research is to uncover the neural circuitry that mediates some of the remarkable processing capabilities of the retina. The retina to operates at high spatial and temporal resolution over more than 7 orders of magnitude, to detect the direction of motion, to blank and then recover after saccades, to generate at least a dozen different abstract representations of the visual world. How is all of this, and much more, possible in this tissuepaper-thin array of neurons? Videos and images describing this include: * The retinal hypercircuit. * How the Retina Works * Take a Tour through the Retina * Cartoon of the retina showing layering of neurons * Directional Selectivity * Feedback and Crossover inhibition * Multiple Representations of the Visual Scene ** Pseudo Array Recording Methods ** Multiple Representations of the Visual World ** Regions of Frequency Space * Regions of space/time frequency * Space-time rasters for ON and OFF cells * Patching a neuron in a retinal slice * Targeting Retinal Neuron Subregions with Artificial Rhodopsins

Abbreviations: Werblin Lab

Synonyms: Werblin Lab: Division of Neurobiology; Department of Molecular and Cell Biology

Resource Type: data or information resource, image, laboratory portal, organization portal, portal, video resource

Keywords: retina, hypercircuit, neuron, ganglion

Resource Name: Werblin Lab

Resource ID: SCR_005251

Alternate IDs: nlx_144274

Record Creation Time: 20220129T080229+0000

Record Last Update: 20260905T132532+0000

Ratings and Alerts

No rating or validation information has been found for Werblin Lab.

No alerts have been found for Werblin Lab.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.