

Resource Summary Report

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Harvard Medical School; Department of Neurobiology; Born Lab

RRID:SCR_010643

Type: Tool

Proper Citation

Harvard Medical School; Department of Neurobiology; Born Lab (RRID:SCR_010643)

Resource Information

URL: <http://www.hms.harvard.edu/bss/neuro/bornlab/index.htm>

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Description: In the Born Lab the goal is to seek to understand the circuitry of the mammalian cerebral cortex and how it endows us with the ability to see . . . and hear and think and talk. The approach is to study visual cortex of alert monkeys trained to report specific aspects of their visual experience. This allows us to define the neural correlates of specific percepts and then study their underlying mechanisms by activating or inactivating components of the circuit. Our primary tools are extracellular electrophysiology both with single electrodes and multi-electrode arrays and psychophysics. They are complemented by techniques that allow us to dissect and probe cortical circuitry: ?? circuit tracing with genetically modified rabies viruses ?? microstimulation to insert specific signals into cortical circuits ?? cortical cooling (cryoloops) to reversibly inactivate circuit elements ?? microarrays to identify molecular markers of neuronal subtypes ?? optogenetics to improve the spatial and temporal specificity with which we can manipulate circuits Current Projects: *Dissecting parallel pathways. *Probing cortico-cortical feedback.

Synonyms: Born Lab

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

Keywords: cortical circuitry, visual perception

Resource Name: Harvard Medical School; Department of Neurobiology; Born Lab

Resource ID: SCR_010643

Alternate IDs: nlx_64180

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Ratings and Alerts

No rating or validation information has been found for Harvard Medical School; Department of Neurobiology; Born Lab.

No alerts have been found for Harvard Medical School; Department of Neurobiology; Born Lab.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.