Resource Summary Report

Generated by RRID on Apr 11, 2025

Hybrid-drive combining Optogenetics, Pharmacology, and Electrophysiology project

RRID:SCR_021572
Type: Tool

Proper Citation

Hybrid-drive combining Optogenetics, Pharmacology, and Electrophysiology project (RRID:SCR_021572)

Resource Information

URL: https://edspace.american.edu/openbehavior/project/hope/

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Description: Portal provides brain implant developed by MIT scientists. Implant carries 16 movable tetrodes along with two optic fibers or two injection cannulas. Designed with help of 3D CAD software, allowing modifications for various experimental needs, such as targeting different brain regions and use in other animal species (e.g., rats and non-human primates). Implant can be designed to shape of skull of individual monkeys based on pre-implantation magnetic resonance imaging, thus optimizing fit with skull surface and making recording from deep brain regions more reliable.

Abbreviations: HOPE

Synonyms: Pharmacology, and Electrophysiology, Hybrid-drive combining Optogenetics, Hybrid drive combining Optogenetics

Resource Type: portal, project portal, data or information resource, instrument resource

Defining Citation: DOI:10.3389/fncir.2018.00041

Keywords: Instrument, neural implant, brain implant, manipulate neuronal activity, OpenBehavior

Funding:

Availability: Free, Freely available

Resource Name: Hybrid-drive combining Optogenetics, Pharmacology, and Electrophysiology project

Resource ID: SCR_021572

Record Creation Time: 20220129T080356+0000

Record Last Update: 20250411T060205+0000

Ratings and Alerts

No rating or validation information has been found for Hybrid-drive combining Optogenetics, Pharmacology, and Electrophysiology project.

No alerts have been found for Hybrid-drive combining Optogenetics, Pharmacology, and Electrophysiology project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.