# Resource Summary Report

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# 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:** data or information resource, project portal, instrument resource, portal

**Defining Citation:** DOI:10.3389/fncir.2018.00041

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

**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:** 20260806T054729+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.