

Resource Summary Report

Generated by SPARC SAWG on Sep 17, 2026

SCORCH

RRID:SCR_022600

Type: Tool

Proper Citation

SCORCH (RRID:SCR_022600)

Resource Information

URL: <https://scorch.igs.umaryland.edu/>

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Description: Data coordination, analysis, and scientific outreach center to standardize and share single cell molecular HIV/SUD data by ensuring that data is FAIR. Program with mission of generating resources that would enable comprehensive tissue characterization at single cell level. This includes generating single nucleus transcriptomic data for identification of novel rare cell types, and enrichment of key cellular populations to inform pathophysiological understanding of CNS effects of SUD and HIV. Interdisciplinary effort, involving teams of investigators at ten institutions including Yale, Boston University, Mount Sinai, University of Nebraska Medical Center, Broad Institute, University of California San Diego, Weill Cornell Medicine, Allen Institute, Scripps Research as well as a Data Coordination Center hosted at Institute for Genome Sciences, University of Maryland Baltimore School of Medicine.

Synonyms: Single Cell Opioid Responses in the Context of HIV

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

Keywords: FAIR data, standardize and share single cell molecular HIV/SUD data, tissue characterization at single cell level, single nucleus transcriptomic data, novel rare cell types, HIV, SUD

Availability: Free, Freely available

Resource Name: SCORCH

Resource ID: SCR_022600

Record Creation Time: 20220729T050144+0000

Record Last Update: 20260912T200111+0000

Ratings and Alerts

No rating or validation information has been found for SCORCH.

No alerts have been found for SCORCH.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Chang L, et al. (2026) The 30th Scientific Conference of the Society on NeuroImmune Pharmacology in Annapolis, Maryland, May 3rd - 6th, 2026. NeuroImmune pharmacology and therapeutics, 5(1), 1.

Green AA, et al. (2026) Cell-type specific impact of opioid use disorder and HIV on the human forebrain and cerebellum. bioRxiv : the preprint server for biology.

Ellison AL, et al. (2026) Antiviral and anti-inflammatory effects of Cannabidiol in HIV/SIV infection. Brain, behavior, and immunity, 137, 106843.

Wilson AM, et al. (2025) Transcriptional impacts of substance use disorder and HIV on human ventral midbrain neurons and microglia. bioRxiv : the preprint server for biology.

Yang J, et al. (2025) Multi-omic Characterization of HIV Effects at Single Cell Level across Human Brain Regions. bioRxiv : the preprint server for biology.