Resource Summary Report

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CERVO Canadian Optogenetics and Vectorology Foundry Core Facility

RRID:SCR_016477
Type: Tool

Proper Citation

CERVO Canadian Optogenetics and Vectorology Foundry Core Facility (RRID:SCR_016477)

Resource Information

URL: https://tools.neurophotonics.ca/

Proper Citation: CERVO Canadian Optogenetics and Vectorology Foundry Core Facility (RRID:SCR_016477)

Description: Core facility responsible for custom adeno-associated virus (AAV) and lentivirus production available through Canadian Neurophotonics Platform. Services include design, cloning and production of molecular constructions in order to produce plasmid expression vectors or to generate transgenic animals and design, including advice and assistance for choice of suitable vectors required by investigators.

Abbreviations: COVF, MTP, CNP

Synonyms: Canadian Molecular Tools Platform Core Facility, Canadian Neurophotonics Centre Molecular Tools Platform Core Facility, Neurophotonics Platform Viral Vector Core, Canadian Neurophotonics Platform - Viral Vector Facility, Molecular Tools Platform, Canadian Neurophotonics Platform Viral Vector Core

Resource Type: core facility, service resource, access service resource

Keywords: ABRF, Adenovirus, retrovirus, lentivirus, viral vector production, molecular construction production, molecular construction design, molecular construction cloning, ABRF, optogenetics

Funding: Brain Canada Foundation

Availability: Restricted

Resource Name: CERVO Canadian Optogenetics and Vectorology Foundry Core Facility

Resource ID: SCR_016477

Alternate IDs: SCR_019051, ABRF_681

Alternate URLs: https://neurophotonics.ca/viral-vector-facility;https://neurophotonics.ca/covf

Record Creation Time: 20220129T080330+0000

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Ratings and Alerts

No rating or validation information has been found for CERVO Canadian Optogenetics and Vectorology Foundry Core Facility.

No alerts have been found for CERVO Canadian Optogenetics and Vectorology Foundry Core Facility.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 61 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Rezaei E, et al. (2025) Characterization of iGABASnFR2 for in vivo mesoscale imaging of intracortical GABA dynamics. Neurophotonics, 12(3), 035006.

Patel ZH, et al. (2025) Capicua regulates the survival of Cajal-Retzius cells in the postnatal hippocampus. Cell death & disease, 16(1), 898.

Nguyen NV, et al. (2025) Targeted spiral ganglion neuron degeneration in parvalbumin-Cre neonatal mice. Molecular therapy. Methods & clinical development, 33(2), 101440.

Hernandez G, et al. (2025) Amphetamine in Adolescence Induces a Sex-Specific Mesolimbic Dopamine Phenotype in the Adult Prefrontal Cortex. bioRxiv : the preprint server for biology.

Hampton RF, et al. (2025) Nutrient excess remodels islet autonomic innervation via pancreatic schwann cells. bioRxiv : the preprint server for biology.

Depaauw-Holt LR, et al. (2025) A divergent astrocytic response to stress alters activity patterns via distinct mechanisms in male and female mice. Nature communications, 16(1), 6372.

Hernandez G, et al. (2025) Amphetamine in adolescence induces a sex-specific mesolimbic dopamine phenotype in the adult prefrontal cortex. Communications biology, 9(1), 12.

Bono BS, et al. (2025) Brainwide Projections of Mouse Dopaminergic Zona Incerta Neurons. The Journal of comparative neurology, 533(3), e70039.

Carty JRE, et al. (2025) Amygdala-liver signalling orchestrates glycaemic responses to stress. Nature.

Nahlé S, et al. (2025) Differentially expressed fusogens specify myocyte states to drive myogenesis. Development (Cambridge, England), 152(19).

Alsalman M, et al. (2025) Hippocampal cell- and circuit-specific differences in mitochondrial form and function. bioRxiv : the preprint server for biology.

Srikanta SB, et al. (2025) The Deubiquitinase USP2 Modulates Photic Entrainment of the Circadian Clock at the Level of the Suprachiasmatic Nucleus. Journal of neurochemistry, 169(2), e70018.

Cheng J, et al. (2025) Synaptic modulation of glutamate in striatum of the YAC128 mouse model of Huntington disease. Neurobiology of disease, 205, 106774.

Gu N, et al. (2025) Microglia regulate neuronal activity via structural remodeling of astrocytes. Neuron.

Olguin AGR, et al. (2025) Cadherin 4 assembles a family of color-preferring retinal circuits that respond to light offset. Current biology : CB, 35(6), 1298.

Chami AA, et al. (2025) Virus-mediated delivery of single-chain antibody targeting TDP-43 protects against neuropathology, cognitive impairment and motor deficit caused by chronic cerebral hypoperfusion. Experimental neurology, 385, 115138.

Goto T, et al. (2025) Dietary availability acutely influences puberty onset via a hypothalamic neural circuit. Neuron, 113(7), 1036.

Keramidis I, et al. (2025) Chronic optogenetic activation of hippocampal CA1 neurons triggers Alzheimer's disease-like proteomic remodeling. iScience, 28(10), 113454.

Stanley S, et al. (2024) Amygdala-liver signaling orchestrates rapid glycemic responses to stress and drives stress-induced metabolic dysfunction. Research square.

Juárez Tello A, et al. (2024) Dopamine-sensitive neurons in the mesencephalic locomotor region control locomotion initiation, stop, and turns. Cell reports, 43(5), 114187.