Resource Summary Report

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Demon Voltammetry and Analysis Software

RRID:SCR_014468
Type: Tool

Proper Citation

Demon Voltammetry and Analysis Software (RRID:SCR_014468)

Resource Information

URL: http://www.wakeforestinnovations.com/technology-for-license/demon-voltammetry-and-analysis-software/

Proper Citation: Demon Voltammetry and Analysis Software (RRID:SCR_014468)

Description: A software for performing fast scan cyclic voltammetry recordings in brain tissue for detection of neurotransmitters. It was written in the LabView programming language and can be used to provide command voltage to equipment and record the resulting waveforms. The analysis portion of the software can view and export data, apply noise filters, perform chemometric and waveform kinetic analysis, and create figures.

Resource Type: software application, data analytics software, data acquisition software, data processing software, software resource

Defining Citation: PMID:21392532

Keywords: voltammetry, cyclic voltammetry, analysis software, brain tissue, neurotransmitter, tabview

Funding: NIDA K01 DA025279;
NIDA R01 DA021325;
NIAAA U01 AA014091;
NIAAA P01 AA17506;
NIAAA T32 AA007565

Availability: Public, Commercial

Resource Name: Demon Voltammetry and Analysis Software

Resource ID: SCR_014468

License: Free academic license, Free non-profit license, Commercial license

Record Creation Time: 20220129T080320+0000

Record Last Update: 20250519T203830+0000

Ratings and Alerts

No rating or validation information has been found for Demon Voltammetry and Analysis Software.

No alerts have been found for Demon Voltammetry and Analysis Software.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Henderson BJ, et al. (2024) Age-dependent effects of vaping on the prefrontal cortex, ventral tegmental area, and nucleus accumbens. Communications biology, 7(1), 1553.

Wadsworth HA, et al. (2024) Ivermectin increases striatal cholinergic activity to facilitate dopamine terminal function. Cell & bioscience, 14(1), 50.

Ronström JW, et al. (2023) Interleukin-10 enhances activity of ventral tegmental area dopamine neurons resulting in increased dopamine release. Brain, behavior, and immunity, 113, 145.

Brundage JN, et al. (2022) Regional and sex differences in spontaneous striatal dopamine transmission. Journal of neurochemistry, 160(6), 598.

Torres DJ, et al. (2022) Methamphetamine Exposure During Development Causes Lasting Changes to Mesolimbic Dopamine Signaling in Mice. Cellular and molecular neurobiology, 42(7), 2433.

Ferdinand JM, et al. (2021) Modulation of stimulated dopamine release in rat nucleus accumbens shell by GABA in vitro: Effect of sub-chronic phencyclidine pretreatment. Journal of neuroscience research, 99(7), 1885.

Consoli DC, et al. (2021) Ascorbate deficiency decreases dopamine release in gulo-/- and APP/PSEN1 mice. Journal of neurochemistry, 157(3), 656.

Yorgason JT, et al. (2017) Cholinergic Interneurons Underlie Spontaneous Dopamine Release in Nucleus Accumbens. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(8), 2086.

Can A, et al. (2016) Chronic lithium treatment rectifies maladaptive dopamine release in the nucleus accumbens. Journal of neurochemistry, 139(4), 576.

Singer BF, et al. (2016) Individual variation in incentive salience attribution and accumbens dopamine transporter expression and function. The European journal of neuroscience, 43(5), 662.