Resource Summary Report

Generated by dkNET on Apr 28, 2025

Cascade

RRID:SCR_005861

Type: Tool

Proper Citation

Cascade (RRID:SCR_005861)

Resource Information

URL: http://www-math.u-strasbg.fr/genpred/spip.php?article3

Proper Citation: Cascade (RRID:SCR_005861)

Description: R software package to study, predict and simulate the diffusion of a signal through a temporal gene network. It predicts changes in gene expressions after a biological perturbation in the network and provides graphical outputs that allow monitoring the spread of a signal through the network.

Abbreviations: Cascade

Resource Type: software resource

Defining Citation: PMID:24307703

Keywords: r, windows, gene expression, perturbation, network, diffusion, signal, temporal

gene network, gene regulatory network, gene, bio.tools

Funding:

Resource Name: Cascade

Resource ID: SCR_005861

Alternate IDs: OMICS_02249, biotools:cascade

Alternate URLs: http://www-math.u-strasbg.fr/genpred/spip.php?rubrique4,

https://bio.tools/cascade

Record Creation Time: 20220129T080232+0000

Record Last Update: 20250420T014304+0000

Ratings and Alerts

No rating or validation information has been found for Cascade.

No alerts have been found for Cascade.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 77 mentions in open access literature.

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

Rupprecht P, et al. (2025) Spike rate inference from mouse spinal cord calcium imaging data. bioRxiv: the preprint server for biology.

Rehman N, et al. (2024) Measures of retention in HIV care: A protocol for a mixed methods study. PloS one, 19(2), e0294824.

Zhou Z, et al. (2024) Membrane Associated RNA-Containing Vesicles Regulate Cortical Astrocytic Microdomain Calcium Transients in Awake Ischemic Stroke Mice. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(46), e2404391.

Sajed T, et al. (2024) Accurate Prediction of 1H NMR Chemical Shifts of Small Molecules Using Machine Learning. Metabolites, 14(5).

Zeng YF, et al. (2024) Conjunctive encoding of exploratory intentions and spatial information in the hippocampus. Nature communications, 15(1), 3221.

Cui K, et al. (2024) Dominant activities of fear engram cells in the dorsal dentate gyrus underlie fear generalization in mice. PLoS biology, 22(7), e3002679.

Kelleher BL, et al. (2024) CASCADE: A Community-Engaged Action Model for Generating Rapid, Patient-Engaged Decisions in Clinical Research. Research square.

Godbout K, et al. (2024) A survey of severe asthma in Canada: results from the CASCADE practice reflective program. Allergy, asthma, and clinical immunology: official journal of the Canadian Society of Allergy and Clinical Immunology, 20(1), 31.

Revsine M, et al. (2024) Lineage and ecology define liver tumor evolution in response to treatment. Cell reports. Medicine, 5(2), 101394.

Porter LH, et al. (2023) Low-dose carboplatin modifies the tumor microenvironment to augment CAR T cell efficacy in human prostate cancer models. Nature communications, 14(1), 5346.

Zhou Z, et al. (2023) Effective and efficient neural networks for spike inference from in vivo calcium imaging. Cell reports methods, 3(5), 100462.

Sumi T, et al. (2023) Biological neurons act as generalization filters in reservoir computing. Proceedings of the National Academy of Sciences of the United States of America, 120(25), e2217008120.

Hasan AMM, et al. (2023) Copy number architectures define treatment-mediated selection of lethal prostate cancer clones. Nature communications, 14(1), 4823.

Fiore F, et al. (2023) Norepinephrine regulates calcium signals and fate of oligodendrocyte precursor cells in the mouse cerebral cortex. Nature communications, 14(1), 8122.

Wang J, et al. (2022) Relationship Between Carotid Artery Angle and Plaque Morphology in Acute Cerebral Infarction Patients. The neurologist, 27(5), 240.

Tsai MS, et al. (2022) Nonlinear compression toward high-energy single-cycle pulses by cascaded focus and compression. Science advances, 8(31), eabo1945.

Chatain GP, et al. (2022) Long-term Neurologic Outcome After Spinal Ependymoma Resection With Multimodal Intraoperative Electrophysiological Recording: Cohort Study and Review of the Literature. Neurospine, 19(1), 118.

Bray D, et al. (2022) CASCADE: high-throughput characterization of regulatory complex binding altered by non-coding variants. Cell genomics, 2(2).

Rupprecht P, et al. (2021) A database and deep learning toolbox for noise-optimized, generalized spike inference from calcium imaging. Nature neuroscience, 24(9), 1324.

Rübsamen N, et al. (2021) Serum neurofilament light and tau as prognostic markers for all-cause mortality in the elderly general population-an analysis from the MEMO study. BMC medicine, 19(1), 38.