

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

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., THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

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

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

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: 20260808T185838+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 92 mentions in open access literature.

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

Dabbous-Wach A, et al. (2025) Quantification of ?-Acids, ?-Acids, and Phenolic Compounds in Corsican Hops Using LC-MS/MS and Metabolomic Approach Through Molecular Networks. *Phytochemical analysis : PCA*, 36(2), 438.

Taranenko D, et al. (2025) A census of anti-CRISPR proteins reveals AcrIE9 as an inhibitor of Escherichia coli K12 Type IE CRISPR-Cas system. *bioRxiv : the preprint server for biology*.

, et al. (2025) Prevalence, trends and outcomes from smoking in elective surgical systems: a secondary analysis of a prospective observational cohort study across 442 hospitals from 29 countries across Europe. *The Lancet regional health. Europe*, 53, 101282.

Rupprecht P, et al. (2025) Spike rate inference from mouse spinal cord calcium imaging data. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(18).

Kelleher B, et al. (2025) Optimizing a Personalized Health Approach for Virtually Treating High-Risk Caregivers of Children With Neurogenetic Conditions (Project WellCAST): Protocol for a Randomized Controlled Trial. *JMIR research protocols*, 14, e64360.

Rezene F, et al. (2025) Gender equality in leadership of HIV care cascade clinical trials: A methodological study. *HIV medicine*, 26(9), 1356.

Fernández de la Puebla M, et al. (2025) IP3R2-Mediated Astrocytic Ca²⁺ Transients Are Critical to Sustain Modulatory Effects of Locomotion on Neurons in Mouse Somatosensory Cortex. *Cells*, 14(14).

Zhao Q, et al. (2025) Cost-effectiveness analysis of depression case finding followed by alerting patients and their GPs among older adults in northern England: results from a regression discontinuity study. *BJPsych open*, 11(4), e125.

Buchan E, et al. (2025) Advanced Multipurpose Spectroscopic Nanobio-Device for Concurrent Lab-on-a-Chip Label-Free Separation and Detection of Extracellular Vesicles as Key-Biomarkers for Point-of-Care Cardiovascular Disease Diagnostics. *Advanced healthcare materials*, 14(21), e2500122.

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

Hu B, et al. (2025) Representational learning by optimization of neural manifolds in an olfactory memory network. *Research square*.

Tutty E, et al. (2025) 'Finding Comfort in Discomfort': A Qualitative Study of Cancer Clinicians and Researchers' Experiences of Conducting a Cancer Rapid Autopsy Program. *Psycho-oncology*, 34(5), e70175.

Heiser H, et al. (2025) Brain-wide microstrokes affect the stability of memory circuits in the hippocampus. *Nature communications*, 16(1), 3462.

Pandey N, et al. (2025) Cas11 augments Cascade functions in type I-E CRISPR system but is redundant for gene silencing and plasmid interference. *The Biochemical journal*, 482(12), 793.

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.

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

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*.

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

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