

Resource Summary Report

Generated by PRECISE-TBI on Aug 3, 2026

Sumatra

RRID:SCR_001381

Type: Tool

Proper Citation

Sumatra (RRID:SCR_001381)

Resource Information

URL: <http://neuralensemble.org/sumatra/>

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Description: A software tool for managing and tracking projects based on numerical simulation or analysis to support reproducible research. It can be thought of as an automated electronic lab notebook for simulation/analysis projects. Sumatra consists of: a command-line interface, `smt`, for launching simulations/analyses with automatic recording of information about the context, annotating these records, linking to data files, etc.; a web interface with a built-in web-server, `smtweb`, for browsing and annotating simulation/analysis results; a LaTeX package and Sphinx extension for including Sumatra-tracked figures and links to provenance information in papers and other documents; and a Python API, on which `smt` and `smtweb` are based, that can be used in personalized scripts in place of using `smt`.

Synonyms: Sumatra: automated tracking of scientific computations

Resource Type: software resource, electronic laboratory notebook, software application

Keywords: simulation, analysis, python, numerical simulation, manage, track

Availability: Free, Freely Available

Resource Name: Sumatra

Resource ID: SCR_001381

Alternate IDs: nlx_152549

License: CeCILL license, (GPL-equivalent), Considering changing to a less restrictive licence (e.g. BSD-like).

Record Creation Time: 20220129T080207+0000

Record Last Update: 20260803T040306+0000

Ratings and Alerts

No rating or validation information has been found for Sumatra.

No alerts have been found for Sumatra.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Wich S, et al. (2025) Using Deep Learning to Automate Orangutan Nest Detections on Aerial Images Collected With Drones. *American journal of primatology*, 87(12), e70100.

Zhang L, et al. (2024) Weakened western Indian Ocean dominance on Antarctic sea ice variability in a changing climate. *Nature communications*, 15(1), 3261.

Lawton R, et al. (2023) Exposure to the Indian Ocean Tsunami shapes the HPA-axis resulting in HPA "burnout" 14 years later. *Proceedings of the National Academy of Sciences of the United States of America*, 120(44), e2306497120.

Yeager SE, et al. (2022) Roast level and brew temperature significantly affect the color of brewed coffee. *Journal of food science*, 87(4), 1837.

Wirawan GBS, et al. (2021) Correlation of Demographics, Healthcare Availability, and COVID-19 Outcome: Indonesian Ecological Study. *Frontiers in public health*, 9, 605290.

Bank S, et al. (2021) A tree of leaves: Phylogeny and historical biogeography of the leaf insects (Phasmatodea: Phylliidae). *Communications biology*, 4(1), 932.

Khan S, et al. (2021) Stock delineation of striped snakehead, *Channa striata* using multivariate generalised linear models with otolith shape and chemistry data. *Scientific reports*, 11(1), 8158.

Schwallier R, et al. (2020) Ontogeny and Anatomy of the Dimorphic Pitchers of *Nepenthes rafflesiana* Jack. *Plants (Basel, Switzerland)*, 9(11).

Camacho-Sanchez M, et al. (2020) Mitogenomes Reveal Multiple Colonization of Mountains by *Rattus* in Sundaland. *The Journal of heredity*, 111(4), 392.

Poor EE, et al. (2019) The road to deforestation: Edge effects in an endemic ecosystem in Sumatra, Indonesia. *PloS one*, 14(7), e0217540.

Paterson RRM, et al. (2019) *Ganoderma boninense* Disease of Oil Palm to Significantly Reduce Production After 2050 in Sumatra if Projected Climate Change Occurs. *Microorganisms*, 7(1).

Beaulieu F, et al. (2019) Review of the mite genus *Ololaelaps* (Acari, Laelapidae) and redescription of *O.formidabilis* Berlese. *ZooKeys*, 853, 1.

Ma YF, et al. (2019) Population Genomics Analysis Revealed Origin and High-altitude Adaptation of Tibetan Pigs. *Scientific reports*, 9(1), 11463.

Jaouen G, et al. (2019) Fungi of French Guiana gathered in a taxonomic, environmental and molecular dataset. *Scientific data*, 6(1), 206.

Manis PB, et al. (2018) A biophysical modelling platform of the cochlear nucleus and other auditory circuits: From channels to networks. *Hearing research*, 360, 76.

Roy J, et al. (2018) Differences in the fungal communities nursed by two genetic groups of the alpine cushion plant, *Silene acaulis*. *Ecology and evolution*, 8(23), 11568.

Haidir IA, et al. (2018) Assessing the spatiotemporal interactions of mesopredators in Sumatra's tropical rainforest. *PloS one*, 13(9), e0202876.

Teyssier A, et al. (2018) Dynamics of Gut Microbiota Diversity During the Early Development of an Avian Host: Evidence From a Cross-Foster Experiment. *Frontiers in microbiology*, 9, 1524.

Dresser GK, et al. (2017) Coffee inhibition of CYP3A4 in?vitro was not translated to a grapefruit-like pharmacokinetic interaction clinically. *Pharmacology research & perspectives*, 5(5).

Jaramillo E, et al. (2017) Calibrating coseismic coastal land-level changes during the 2014 Iquique (Mw=8.2) earthquake (northern Chile) with leveling, GPS and intertidal biota. *PloS one*, 12(3), e0174348.