

Resource Summary Report

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Multiscale Object Orientation Simulation Environment

RRID:SCR_008031

Type: Tool

Proper Citation

Multiscale Object Orientation Simulation Environment (RRID:SCR_008031)

Resource Information

URL: <http://moose.sourceforge.net/>

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Description: MOOSE is the Multiscale Object-Oriented Simulation Environment. It is the base and numerical core for large, detailed simulations including Computational Neuroscience and Systems Biology. MOOSE spans the range from single molecules to subcellular networks, from single cells to neuronal networks, and to still larger systems. It is backwards-compatible with GENESIS, and forward compatible with Python and XML-based model definition standards like SBML and MorphML. MOOSE is coordinating with the GENESIS-3 project towards the goals of developing educational resources for modeling. MOOSE is open source software, licensed under the LGPL (Lesser GNU Public License). It has absolutely no warranty. Sponsors: - National Center of Biological Sciences (NCBS) - National Institutes of Health (NIH) Collaboration - EU-India grid - Department of Atomic Energy Science Research Council (DAE/SRC) - Department of Biotechnology (DBT)

Synonyms: MOOSE

Resource Type: simulation software, software application, software resource

Keywords: cell, computational, molecule, network, neuronal, neuroscience, simulation, subcellular, systems biology

Resource Name: Multiscale Object Orientation Simulation Environment

Resource ID: SCR_008031

Alternate IDs: nif-0000-10307

Alternate URLs: <http://www.nitrc.org/projects/moose>

Record Creation Time: 20220129T080245+0000

Record Last Update: 20260912T195659+0000

Ratings and Alerts

No rating or validation information has been found for Multiscale Object Orientation Simulation Environment.

No alerts have been found for Multiscale Object Orientation Simulation Environment.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 313 mentions in open access literature.

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

Nguyen B, et al. (2026) Early versus late initiation of long-acting insulin in paediatric and adult diabetic ketoacidosis: A systematic review and meta-analysis of randomised control trials. Diabetes, obesity & metabolism, 28(5), 3655.

Soeker MS, et al. (2026) The Model of Occupational Self-Efficacy: A Contemporary Model to Enhance Work Skills, Cognitive and Emotional Skills of Individuals With Brain Injury-A Pilot Randomized Control Trial. Occupational therapy international, 2026(1), e5561541.

Nakijoba R, et al. (2026) Breastfeeding initiation and continuation among women on medicines: a systematic review and meta-analysis. BMJ open, 16(4), e107274.

Pitsinger RP, et al. (2026) Cross-plane shear wave elastography for viscoelasticity imaging. Physics in medicine and biology, 71(13).

Wheeler C, et al. (2026) Comparison of multi-organ CT image segmentation tools for whole-body [18F]FDG-PET/CT clinical imaging. European journal of nuclear medicine and molecular imaging, 53(5), 3172.

Díaz-Sánchez C, et al. (2026) Impact of Ostomy on Quality of Life in Patients with Colorectal Cancer: A Systematic Review and Meta-Analysis. Healthcare (Basel, Switzerland), 14(4).

Tabak TM, et al. (2026) Sex- and Age-Related Differences in Physiological [18F]FDOPA Uptake on Long Axial Field-of-View PET/CT Imaging. Bioengineering (Basel, Switzerland), 13(6).

Ferrara D, et al. (2026) Total-body [18F]FDG-PET/CT imaging of healthy volunteers with minimal effective dose. European journal of nuclear medicine and molecular imaging, 53(4), 2622.

Hudelist B, et al. (2026) Progestogen use and the risk of intracranial meningioma: a systematic review and meta-analysis. *EClinicalMedicine*, 92, 103791.

Lindqwister W, et al. (2025) Predicting compressive stress-strain behavior of elasto-plastic porous media via morphology-informed neural networks. *Communications engineering*, 4(1), 73.

Sun Q, et al. (2025) Comparative effectiveness of colonic stenting alone and with neoadjuvant chemotherapy for patients with left-sided obstructive colon cancer: a meta-analysis. *International journal of surgery (London, England)*, 111(10), 7168.

Bianchi G, et al. (2025) The dilemma of chronic kidney disease and end-stage kidney disease following pre-eclampsia: a literature review and meta-analysis. *International urology and nephrology*, 57(12), 4131.

Zaragoza JJ, et al. (2025) Prevalence of acute kidney injury in Mexico; a systematic review and meta-analysis of pre-pandemic reports. *Renal failure*, 47(1), 2449573.

Quirk SE, et al. (2025) Mental disorders and excess mortality: a systematic review protocol. *BMJ open*, 15(3), e084797.

Feng H, et al. (2025) Cerebrospinal fluid biomarkers of neuroinflammation and postoperative neurocognitive disorders in patients undergoing orthopedic surgery: a systematic review and meta-analysis. *International journal of surgery (London, England)*, 111(5), 3573.

Lin Y, et al. (2025) Occurrence of Dumping Syndrome After Esophageal Cancer Surgery: Systematic Review and Meta-analysis. *Annals of surgical oncology*, 32(2), 791.

Hu J, et al. (2025) Influence of dosimetry accuracy on the correlation with treatment outcome in a preliminary PSMA radiopharmaceutical therapy study. *European journal of nuclear medicine and molecular imaging*, 52(5), 1649.

Zhang H, et al. (2025) The Impact of Preoperative Risk Factors on Unplanned Readmission After Day Surgery: A Meta-Analysis. *Journal of personalized medicine*, 15(7).

Gutschmayer S, et al. (2025) Whole-Body [18F]FDG-PET/CT Imaging of Healthy Controls: Test/Retest Data for Systemic, Multi-Organ Analysis. *Scientific data*, 12(1), 1707.

Kumari A, et al. (2025) Regional Burden of Anemia among Adolescent girls in India: A systematic review and meta-analysis. *Nepal journal of epidemiology*, 15(3), 1386.