Resource Summary Report

Generated by NIF on May 6, 2025

BioMesh3D

RRID:SCR_009534
Type: Tool

Proper Citation

BioMesh3D (RRID:SCR_009534)

Resource Information

URL: http://www.sci.utah.edu/cibc/software/231-biomesh3d.html

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Description: A free, easy to use program for generating quality meshes for use in biological simulations. It is currently integrated with SCIRun and uses the SCIRun system to visualize the intermediate results. The BioMesh3D program uses a particle system to distribute nodes on the separating surfaces that separate the different materials and then uses the TetGen software package to generate a full tetrahedral mesh.

Abbreviations: BioMesh3D

Resource Type: software resource, software application

Defining Citation: PMID:23367171

Keywords: mesh, simulation

Funding: NCRR 5P41RR012553-15;
NIGMS 8 P41 GM103545-15

Availability: MIT License

Resource Name: BioMesh3D

Resource ID: SCR_009534

Alternate IDs: nlx_155708

Alternate URLs: http://www.nitrc.org/projects/biomesh3d

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250506T060953+0000

Ratings and Alerts

No rating or validation information has been found for BioMesh3D.

No alerts have been found for BioMesh3D.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Jung DH, et al. (2020) Therapeutic effects of anodal transcranial direct current stimulation in a rat model of ADHD. eLife, 9.

Boonzaier J, et al. (2020) Design and Evaluation of a Rodent-Specific Transcranial Magnetic Stimulation Coil: An In Silico and In Vivo Validation Study. Neuromodulation : journal of the International Neuromodulation Society, 23(3), 324.

MacLeod RS, et al. (2009) Subject-specific, multiscale simulation of electrophysiology: a software pipeline for image-based models and application examples. Philosophical transactions. Series A, Mathematical, physical, and engineering sciences, 367(1896), 2293.