Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 7, 2024

Martini 3

RRID:SCR_021951
Type: Tool

Proper Citation

Martini 3 (RRID:SCR_021951)

Resource Information

URL: http://cgmartini.nl/index.php/martini-3-0

Proper Citation: Martini 3 (RRID:SCR_021951)

Description: Software tool used for predictions of molecular packing and interactions. General purpose coarse grained force field for molecular dynamics simulations of biomolecular systems Martini 3 is refined model with improved interaction balance, new bead types and expanded ability to include specific interactions representing, for example, hydrogen bonding and electronic polarizability.

Synonyms: Matini3.0

Resource Type: software application, software resource, simulation software

Defining Citation: PMID:33782607

Keywords: Martini, molecular dynamics simulations, coarse grained, molecular packing and interactions prediction,

Availability: Free, Available for download, Freely available

Resource Name: Martini 3

Resource ID: SCR_021951

Alternate URLs: http://cgmartini.nl/

Ratings and Alerts

No rating or validation information has been found for Martini 3.

No alerts have been found for Martini 3.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Mukherjee S, et al. (2023) Thermodynamic forces from protein and water govern condensate formation of an intrinsically disordered protein domain. Nature communications, 14(1), 5892.

Ansell TB, et al. (2023) LipIDens: simulation assisted interpretation of lipid densities in cryo-EM structures of membrane proteins. Nature communications, 14(1), 7774.

Diamanti E, et al. (2023) Identification of inhibitors targeting the energy-coupling factor (ECF) transporters. Communications biology, 6(1), 1182.

Xu J, et al. (2023) Understanding the Mechanical Properties of Ultradeformable Liposomes Using Molecular Dynamics Simulations. The journal of physical chemistry. B, 127(44), 9496.

Jensen LE, et al. (2022) Membrane curvature sensing and stabilization by the autophagic LC3 lipidation machinery. Science advances, 8(50), eadd1436.

Johansen NT, et al. (2022) Mg2+-dependent conformational equilibria in CorA and an integrated view on transport regulation. eLife, 11.