

Resource Summary Report

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AmberTools

RRID:SCR_018497

Type: Tool

Proper Citation

AmberTools (RRID:SCR_018497)

Resource Information

URL: <https://ambermd.org/AmberTools.php>

Proper Citation: AmberTools (RRID:SCR_018497)

Description: Software suite that works by themselves, and with Amber20 itself. Can be used to carry out complete molecular dynamics simulations, with either explicit water or generalized Born solvent models.

Synonyms: Amber, AmberTools20, AmberTools MD software packages

Resource Type: software resource, software application, software toolkit, simulation software

Defining Citation: [DOI:10.1002/wcms.1121](https://doi.org/10.1002/wcms.1121)

Keywords: Molecular dynamics simulation, water, Born solvent model, molecular dynamics, molecular modeling

Resource Name: AmberTools

Resource ID: SCR_018497

License: GNU GPL

Record Creation Time: 20220129T080340+0000

Record Last Update: 20260801T190614+0000

Ratings and Alerts

No rating or validation information has been found for AmberTools.

No alerts have been found for AmberTools.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 642 mentions in open access literature.

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

Nitsch S, et al. (2026) H4K16 acylations destabilize chromatin architecture and facilitate transcriptional response during metabolic perturbations. *Molecular cell*, 86(1), 24.

Martino G, et al. (2026) Controlled dynamic remodeling of the spliceosome active site enables the first step of splicing. *Proceedings of the National Academy of Sciences of the United States of America*, 123(1), e2522293123.

Li X, et al. (2026) Dynamic adaptive coassembled sericin protein orchestrating stem cell development for nucleus pulposus regeneration. *Science advances*, 12(1), eadx2768.

Strijbis VJF, et al. (2026) Modifications of the Prothrombin Active Site S4 Subpocket Confer Resistance to Dabigatran. *Thrombosis and haemostasis*, 126(1), 23.

Martins MP, et al. (2026) A disulfide redox switch mechanism regulates glycoside hydrolase function. *Nature communications*, 17(1), 45.

Li Z, et al. (2025) Phased high-quality genome of the gymnosperm Himalayan Yew assists in paclitaxel pathway exploration. *GigaScience*, 14.

Shah K, et al. (2025) LncRNA SLNCR phenocopies the E2F1 DNA binding site to promote melanoma progression. *Cell reports*, 44(5), 115608.

Basharat Z, et al. (2025) Proteome mining of *Yersinia Enterocolitica* for drug targets and computational inhibitor identification with ADMET, anti-inflammation potential and formulation characteristics. *BioData mining*, 18(1), 68.

Cheng Z, et al. (2025) Vitamin A family suppresses periodontitis by restoring mitochondrial metabolic reprogramming in macrophages through JAK-STAT pathway. *Frontiers in genetics*, 16, 1505933.

Li F, et al. (2025) De novo discovery of a molecular glue-like macrocyclic peptide that induces MCL1 homodimerization. *Proceedings of the National Academy of Sciences of the United States of America*, 122(13), e2426006122.

Choi J, et al. (2025) Sticky organisms create underwater biological adhesives driven by interactions between EGF- and GlcNAc- containing polysaccharides. *Nature communications*, 16(1), 233.

Lin P, et al. (2025) Enzyme Reactions Are Accelerated or Decelerated When the Enzymes Are Located Near the DNA Nanostructure. *ACS applied materials & interfaces*, 17(10), 15775.

Gregor WD, et al. (2025) Cryo-EM structure of the *Pseudomonas aeruginosa* MexY multidrug efflux pump. *mBio*, 16(4), e0382624.

Wathan AJ, et al. (2025) The Lysine Deprotonation Mechanism in a Ubiquitin Conjugating Enzyme. *The journal of physical chemistry. B*, 129(20), 4962.

Wang Q, et al. (2025) O-GlcNAcylation with ubiquitination stabilizes METTL3 to promoting HMGB1 degradation to inhibit ferroptosis and enhance gemcitabine resistance in pancreatic cancer. *Molecular medicine (Cambridge, Mass.)*, 31(1), 228.

Horiuchi N, et al. (2025) Design and Evaluation of Bivalent K-Ras Inhibitors That Target the CAAX Binding Site and the Acidic Surface of Farnesyltransferase and Geranylgeranyltransferase I. *Chemistry (Weinheim an der Bergstrasse, Germany)*, 31(27), e202500306.

Lee E, et al. (2025) Identifying and controlling inactive and active conformations of a serine protease. *Science advances*, 11(15), eadu7447.

Hernández-Rocamora VM, et al. (2025) A novel peptidoglycan deacetylase modulates daughter cell separation in *E. coli*. *PLoS genetics*, 21(9), e1011626.

Xia Y, et al. (2025) Design of function-regulating RNA via deep learning and AlphaFold 3. *Briefings in bioinformatics*, 26(4).

Xiaoying M, et al. (2025) Uncovering active ingredients and mechanisms of *Pholiota adiposa* in the treatment of Alzheimer's disease based on network pharmacology and bioinformatics. *Scientific reports*, 15(1), 27981.