

Resource Summary Report

Generated by [Kravitz](#) on Sep 10, 2026

Cellpack

RRID:SCR_006831

Type: Tool

Proper Citation

Cellpack (RRID:SCR_006831)

Resource Information

URL: <http://www.autopack.org/>

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Description: A specialized version of autoPack designed to pack biological components together. The current version is optimized to pack molecules into cells with biologically relevant interactions to populate massive cell models with atomic or near-atomic details. Components of the algorithm pack transmembrane proteins and lipids into bilayers, globular molecules into compartments defined by the bilayers (or as exteriors), and fibrous components like microtubules, actin, and DNA.

Abbreviations: cellPack

Resource Type: data processing software, software application, software resource

Keywords: 3d packing software, pack, molecule, cell

Funding: QB3 at UCSF Fellowship ;
NSF 07576;
NCRR P41 RR08605

Availability: GNU Lesser General Public License

Resource Name: Cellpack

Resource ID: SCR_006831

Alternate IDs: nlx_151792

Alternate URLs: <https://sites.google.com/site/autofill21/>, <http://code.google.com/p/autofill/>

Record Creation Time: 20220129T080238+0000

Record Last Update: 20260905T133042+0000

Ratings and Alerts

No rating or validation information has been found for Cellpack.

No alerts have been found for Cellpack.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Bob??e V, et al. (2025) Overestimation of Automated Platelet Counts by Blast Fragments in Acute Hypercellular Leukemias: A Retrospective Study Comparing Impedance, Optical (PLT-O), Fluorescent (PLT-F), and CD41/CD61 Flow Cytometry Methods. International journal of laboratory hematology, 47(4), 622.

Rabcuka J, et al. (2025) Assessing the kinetics of oxygen-unloading from red cells using FlowScore, a flow-cytometric proxy of the functional quality of blood. EBioMedicine, 111, 105498.

Hviid CVB, et al. (2025) Automated Red and White Blood Cell Counting in Capillary Microsamples by Sysmex-XN Predilution Mode. International journal of laboratory hematology, 47(5), 808.

Vasan R, et al. (2025) Interpretable representation learning for 3D multi-piece intracellular structures using point clouds. Nature methods, 22(7), 1531.

Coutaz C, et al. (2024) Evaluation of the Sysmex XQ-320 three-part differential haematology analyser and its flagging capabilities. Journal of clinical laboratory analysis, 38(4), e25017.

Gardner A, et al. (2021) CellPAINT: Turnkey Illustration of Molecular Cell Biology. Frontiers in bioinformatics, 1.

Lokerse WJM, et al. (2021) Mechanistic investigation of thermosensitive liposome immunogenicity and understanding the drivers for circulation half-life: A polyethylene glycol versus 1,2-dipalmitoyl-sn-glycero-3-phosphodiglycerol study. Journal of controlled release : official journal of the Controlled Release Society, 333, 1.

Yamagishi T, et al. (2020) Comparative genome analysis of test algal strain NIVA-CHL1 (Raphidocelis subcapitata) maintained in microalgal culture collections worldwide. PloS one, 15(11), e0241889.

Yamagishi T, et al. (2017) Synergism between macrolide antibiotics and the azole fungicide ketoconazole in growth inhibition testing of the green alga Pseudokirchneriella subcapitata. Chemosphere, 174, 1.