

Resource Summary Report

Generated by [ASWG](#) on Aug 2, 2026

Autophagy Database

RRID:SCR_002671

Type: Tool

Proper Citation

Autophagy Database (RRID:SCR_002671)

Resource Information

URL: <http://www.tanpaku.org/autophagy/>

Proper Citation: Autophagy Database (RRID:SCR_002671)

Description: Database that provides basic, up-to-date information on relevant literature, and a list of autophagy-related proteins and their homologs in eukaryotes.

Abbreviations: Autophagy DB, AutophagyDB

Resource Type: database, data or information resource

Defining Citation: [PMID:20972215](#)

Keywords: autophagy, protein, homolog, ortholog, bio.tools

Funding: Japanese Ministry of Education Culture Sports Science and Technology MEXT

Availability: Free, Available for download, Freely available

Resource Name: Autophagy Database

Resource ID: SCR_002671

Alternate IDs: OMICS_03306, biotools:the_autophagy_database, r3d100012565

Alternate URLs: https://bio.tools/the_autophagy_database,
<https://doi.org/10.17616/R3J786>

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Record Creation Time: 20220129T080214+0000

Record Last Update: 20260803T040341+0000

Ratings and Alerts

No rating or validation information has been found for Autophagy Database.

No alerts have been found for Autophagy Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Xie M, et al. (2024) The level of protein in the maternal murine diet modulates the facial appearance of the offspring via mTORC1 signaling. *Nature communications*, 15(1), 2367.

Xiong D, et al. (2024) Prediction significance of autophagy-related genes in survival probability and drug resistance in diffuse large B-cell lymphoma. *Aging*, 16(2), 1049.

Bi Y, et al. (2024) CDKL3 shapes immunosuppressive tumor microenvironment and initiates autophagy in esophageal cancer. *Frontiers in immunology*, 15, 1295011.

Wang S, et al. (2024) VCP enhances autophagy-related osteosarcoma progression by recruiting USP2 to inhibit ubiquitination and degradation of FASN. *Cell death & disease*, 15(11), 788.

Kim JH, et al. (2021) The hypothalamic-pituitary-gonadal axis controls muscle stem cell senescence through autophagosome clearance. *Journal of cachexia, sarcopenia and muscle*, 12(1), 177.

Sarmah DT, et al. (2021) Tracing the footsteps of autophagy in computational biology. *Briefings in bioinformatics*, 22(4).

Imamichi T, et al. (2021) MicroRNA Profiles in Monocyte-Derived Macrophages Generated by Interleukin-27 and Human Serum: Identification of a Novel HIV-Inhibiting and Autophagy-Inducing MicroRNA. *International journal of molecular sciences*, 22(3).

Laverdure S, et al. (2021) Interleukin-27 promotes autophagy in human serum-induced primary macrophages via an mTOR- and LC3-independent pathway. *Scientific reports*, 11(1), 14898.

Goodier JL, et al. (2020) C9orf72-associated SMCR8 protein binds in the ubiquitin pathway and with proteins linked with neurological disease. *Acta neuropathologica communications*, 8(1), 110.

Li S, et al. (2019) Transcriptional regulation of autophagy-lysosomal function in BRAF-driven melanoma progression and chemoresistance. *Nature communications*, 10(1), 1693.

Kozhevnikova OS, et al. (2019) Disruptions of Autophagy in the Rat Retina with Age During the Development of Age-Related-Macular-Degeneration-like Retinopathy. *International journal of molecular sciences*, 20(19).

Safavi-Rizi V, et al. (2018) Divergent N Deficiency-Dependent Senescence and Transcriptome Response in Developmentally Old and Young *Brassica napus* Leaves. *Frontiers in plant science*, 9, 48.

Wang NN, et al. (2018) HAMdb: a database of human autophagy modulators with specific pathway and disease information. *Journal of cheminformatics*, 10(1), 34.

Jacomin AC, et al. (2018) What We Learned From Big Data for Autophagy Research. *Frontiers in cell and developmental biology*, 6, 92.

Gojobori T, et al. (2016) VaProS: a database-integration approach for protein/genome information retrieval. *Journal of structural and functional genomics*, 17(4), 69.

Bowman CJ, et al. (2014) Foxk proteins repress the initiation of starvation-induced atrophy and autophagy programs. *Nature cell biology*, 16(12), 1202.

Villeneuve LM, et al. (2014) Proteomic analysis of the mitochondria from embryonic and postnatal rat brains reveals response to developmental changes in energy demands. *Journal of proteomics*, 109, 228.