

Resource Summary Report

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ExoCarta

RRID:SCR_021960

Type: Tool

Proper Citation

ExoCarta (RRID:SCR_021960)

Resource Information

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

Proper Citation: ExoCarta (RRID:SCR_021960)

Description: Manually curated database of exosomal proteins, RNA and lipids. Web based compendium of exosomal cargo. Database catalogs information from both published and unpublished exosomal studies. Mode of exosomal purification and characterization, biophysical and molecular properties are listed.

Synonyms: ExoCarta 2012

Resource Type: data or information resource, database

Defining Citation: [DOI:10.1093/nar/gkr828](https://doi.org/10.1093/nar/gkr828), [DOI:10.1016/j.jmb.2015.09.019](https://doi.org/10.1016/j.jmb.2015.09.019)

Keywords: Exosome protein, RNA, lipid, exosomal studies data, exosomal purification and characterization, biophysical and molecular properties

Funding: National Health and Medical Research Council ;
Australia ;
Australian Research Council Discovery ;
NIDA U54 DA036134

Availability: Free, Freely available

Resource Name: ExoCarta

Resource ID: SCR_021960

Record Creation Time: 20220421T050138+0000

Record Last Update: 20260804T043749+0000

Ratings and Alerts

No rating or validation information has been found for ExoCarta.

No alerts have been found for ExoCarta.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 163 mentions in open access literature.

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

Wang B, et al. (2026) Exosomes in stroke management: A promising paradigm shift in stroke therapy. *Neural regeneration research*, 21(1), 6.

Balakrishnan A, et al. (2025) Unlocking the secrets of the immunopeptidome: MHC molecules, ncRNA peptides, and vesicles in immune response. *Frontiers in immunology*, 16, 1540431.

Perde-Schrepler M, et al. (2025) Mesenchymal stem cell- derived exosomes as cell-free therapeutics for sensorineural hearing loss. *Biomolecules & biomedicine*, 26(1), 24.

Li H, et al. (2025) Exosomal gene signature in esophageal carcinoma: Insights from single-cell and bulk RNA sequencing. *Translational oncology*, 61, 102490.

Wang M, et al. (2025) Neural stem cell-derived small extracellular vesicles: a new therapy approach in neurological diseases. *Frontiers in immunology*, 16, 1548206.

Gelsomino L, et al. (2025) Adipocyte-derived extracellular vesicles sustain mitochondrial metabolism in breast cancer cells: New insights into the cross-talk between cancer cells and the tumor microenvironment. *International journal of oncology*, 67(6).

Sensi F, et al. (2025) Patient-derived extracellular matrix from decellularized high-grade serous ovarian carcinoma tissues as a biocompatible support for organoid growth. *Translational oncology*, 61, 102523.

Huang S, et al. (2025) Integration of exosome-related genes and differential expression analysis reveals potential biomarkers for prostate cancer. *Discover oncology*, 16(1), 2025.

Gangachannaiah S, et al. (2025) Potential of extracellular vesicle cargo as molecular signals in Schizophrenia: a scoping review. *Schizophrenia (Heidelberg, Germany)*, 11(1), 17.

Zhang YT, et al. (2025) Age-(in)dependent altered molecular mechanisms in Parkinson's disease through extracellular vesicle proteome and lipidome. *Cell reports. Medicine*, 6(11), 102432.

Wang N, et al. (2025) Extracellular vesicles in dairy cattle: research progress and prospects for practical applications. *Journal of animal science and biotechnology*, 16(1), 110.

Ebrahim N, et al. (2025) Lyophilized MSC-EVs attenuates COVID-19 pathogenesis by regulating the JAK/STAT pathway. *Stem cell research & therapy*, 16(1), 244.

Yin W, et al. (2025) Exosomes: the next-generation therapeutic platform for ischemic stroke. *Neural regeneration research*, 20(5), 1221.

Rhim WK, et al. (2025) Multiplexed PLGA scaffolds with nitric oxide-releasing zinc oxide and melatonin-modulated extracellular vesicles for severe chronic kidney disease. *Journal of advanced research*, 69, 75.

Zhao B, et al. (2025) Exosome-related genes influence the progression of stroke through neuroinflammatory responses. *Frontiers in neurology*, 16, 1517588.

Mahmoud AM, et al. (2025) Lipidomic profiling of human adiposomes identifies specific lipid shifts linked to obesity and cardiometabolic risk. *JCI insight*, 10(12).

Leung PYM, et al. (2025) Glycolytic control proteins in urinary extracellular vesicles are elevated during kidney transplant T cell-mediated rejection. *BMC nephrology*, 26(1), 283.

Noghero A, et al. (2025) Cargo and Biological Properties of Extracellular Vesicles Released from Human Adenovirus Type 4-Infected Lung Epithelial Cells. *Viruses*, 17(10).

Araujo-Abad S, et al. (2025) Exosomes: from basic research to clinical diagnostic and therapeutic applications in cancer. *Cellular oncology (Dordrecht, Netherlands)*, 48(2), 269.

Shao X, et al. (2025) Extracellular vesicle-derived miRNA-mediated cell-cell communication inference for single-cell transcriptomic data with miRTalk. *Genome biology*, 26(1), 95.