

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 Database catalogs information from both published and unpublished exosomal studies.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: Australian Research Council Discovery ;
National Health and Medical Research Council ;
Australia ;
NIDA U54 DA036134

Availability: Free, Freely available

Resource Name: ExoCarta

Resource ID: SCR_021960

Record Creation Time: 20220421T050138+0000

Record Last Update: 20260829T183048+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 263 mentions in open access literature.

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

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

Yang J, et al. (2026) CD147 promotes NSCLC metastasis by inducing secretory autophagy-dependent exosome secretion via TRIM56-mediated ubiquitination and degradation of GCN2. Cell death and differentiation, 33(6), 1152.

Moholkar DN, et al. (2026) Diagnostic and Therapeutic Applications of Exosomes in Lung Cancer. Cells, 15(7).

Than UTT, et al. (2026) mRNA profiling of mesenchymal stem cell-derived exosomes reveals their function in accelerating wound healing. Scientific reports, 16(1).

Mishra S, et al. (2026) Adipose Tissue-Derived Small Extracellular Vesicles in Plasma Reveal Molecular Circuitries Underlying Glucose Intolerance. Obesity (Silver Spring, Md.), 34(4), 896.

Li J, et al. (2026) Downregulated lysyl oxidase in plasma extracellular vesicles: a biomarker linked to brain metastasis risk in lung adenocarcinoma. BMC medicine, 24(1).

Tricard J, et al. (2026) New proteomic signature in circulating extracellular vesicles from tumor-draining and peripheral veins of patients with lung adenocarcinoma. Cancer cell international, 26(1).

Ebrahim N, et al. (2026) Mesenchymal stem cell derived exosomes mitigate COVID-19 cytokine storm via Annexin A1 and TGF-?? mediated MAPK pathway inhibition. Stem cell research & therapy, 17(1).

Suman S, et al. (2026) Proteomic Analysis of Small Extracellular Vesicles From Lymphatic Affluents in Developing Premetastatic Niche in Melanoma. Molecular & cellular proteomics : MCP, 25(1), 101472.

Kemunto G, et al. (2026) Advancing Extracellular Vesicle Research: A Review of Systems Biology and Multiomics Perspectives. Proteomics, 26(2-3), 33.

Miao Y, et al. (2026) CLIC6 and ANLN: novel exosome-related prognostic markers and therapeutic targets in lung adenocarcinoma. *Frontiers in immunology*, 17, 1756058.

Li J, et al. (2026) Baseline Immune Signatures in Serum Extracellular Vesicles Distinguish Food-Induced from Wheat-Dependent Exercise-Induced Anaphylaxis. *International journal of molecular sciences*, 27(11).

Morales-Sanfrutos J, et al. (2026) Defining the reference proteomes for small extracellular vesicles and non-vesicular components. *Nature cell biology*, 28(3), 622.

Venturini W, et al. (2026) Extracellular Vesicles (EVs) Derived from Senescent Endothelial Cells Promote Platelet Activation. *International journal of molecular sciences*, 27(2).

Cheng Y, et al. (2026) PKM2 from hyperactive neuron aggravate lung injury post-stroke by promoting FOXO3A/TXNIP mitochondria translocation in mice. *Redox biology*, 91, 104084.

Wang R, et al. (2026) Engineering BiTE-inspired iPSC-exosomes to potentiate CAR-T cell therapy against lung cancer. *Journal of nanobiotechnology*, 24(1).

Lin Y, et al. (2026) Exosomes in Bone Generation and Repair: Focusing on Bone Microenvironmental Crosstalk and Engineering Biomaterial Designs. *International journal of nanomedicine*, 21, 568671.

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

Milczek-Haduch D, et al. (2025) Extracellular Vesicles in Sport Horses: Potential Biomarkers and Modulators of Exercise Adaptation and Therapeutics. *International journal of molecular sciences*, 26(9).

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