

Resource Summary Report

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Nanoparticle Tracking Analysis

RRID:SCR_014239

Type: Tool

Proper Citation

Nanoparticle Tracking Analysis (RRID:SCR_014239)

Resource Information

URL: <http://www.malvern.com/en/products/technology/nanoparticle-tracking-analysis/>

Proper Citation: Nanoparticle Tracking Analysis (RRID:SCR_014239)

Description: Software which utilizes the properties of both light scattering and Brownian motion to obtain the particle size distribution of samples in liquid suspension. The Nanoparticle Tracking Analysis software tracks many particles individually and calculates their hydrodynamic diameters using the Stokes Einstein equation.

Abbreviations: NTA

Synonyms: Nanoparticle Tracking Analysis (NTA)

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

Keywords: data acquisition software, particle size distribution, liquid suspension

Availability: Pay for product

Resource Name: Nanoparticle Tracking Analysis

Resource ID: SCR_014239

License URLs: <http://www.malvern.com/en/about-us/terms-and-conditions/default.aspx>

Record Creation Time: 20220129T080319+0000

Record Last Update: 20260728T043435+0000

Ratings and Alerts

No rating or validation information has been found for Nanoparticle Tracking Analysis.

No alerts have been found for Nanoparticle Tracking Analysis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

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

Dong H, et al. (2026) Circulating extracellular vesicle PTPRO methylation: an exploratory biomarker for minimally invasive diagnosis of early-stage lung adenocarcinoma. Cancer cell international.

Bizzaro CL, et al. (2025) Exploring STEAP1 Expression in Prostate Cancer Cells in Response to Androgen Deprivation and in Small Extracellular Vesicles. Molecular cancer research : MCR, 23(6), 542.

Xu FT, et al. (2025) BMSC exosomes deliver JKAP to restore Th17/Treg balance via AKT/ERK, alleviating rheumatoid arthritis. iScience, 28(7), 112832.

Krause-Hauch M, et al. (2025) lncRNAs GAS5 and MALAT1 Contained in Human Adipose Stem Cell (hASC)-Derived Exosomes Drive the Cell-Free Repair and Regeneration of Wounds In Vivo. International journal of molecular sciences, 26(8).

Abdelmaboud SS, et al. (2025) Human Adipose-Stem-Cell-Derived Small Extracellular Vesicles Modulate Behavior and Glial Cells in Young and Aged Mice Following TBI. Cells, 14(17).

Santos SIP, et al. (2024) Oligodendrocyte precursor cell-derived exosomes combined with cell therapy promote clinical recovery by immunomodulation and gliosis attenuation. Frontiers in cellular neuroscience, 18, 1413843.

Gomez-Galvez Y, et al. (2024) Recovery after human bone marrow mesenchymal stem cells (hBM-MSCs)-derived extracellular vesicles (EVs) treatment in post-MCAO rats requires repeated handling. PloS one, 19(10), e0312298.

Patel RS, et al. (2024) Long Noncoding RNA VLDLR-AS1 Levels in Serum Correlate with Combat-Related Chronic Mild Traumatic Brain Injury and Depression Symptoms in US Veterans. International journal of molecular sciences, 25(3).

Bastos N, et al. (2023) SMC3 epigenetic silencing regulates Rab27a expression and drives pancreatic cancer progression. Journal of translational medicine, 21(1), 578.

Razo-Azamar M, et al. (2023) Early pregnancy serum maternal and placenta-derived exosomes miRNAs vary based on pancreatic β -cell function in GDM. The Journal of clinical endocrinology and metabolism.

Ruivo CF, et al. (2022) Extracellular Vesicles from Pancreatic Cancer Stem Cells Lead an Intratumor Communication Network (EVNet) to fuel tumour progression. *Gut*, 71(10), 2043.

Patel RS, et al. (2022) Long Noncoding RNA GAS5 Contained in Exosomes Derived from Human Adipose Stem Cells Promotes Repair and Modulates Inflammation in a Chronic Dermal Wound Healing Model. *Biology*, 11(3).

Hendricks MR, et al. (2021) Extracellular vesicles promote transkingdom nutrient transfer during viral-bacterial co-infection. *Cell reports*, 34(4), 108672.

Moss LD, et al. (2021) Intranasal delivery of exosomes from human adipose derived stem cells at forty-eight hours post injury reduces motor and cognitive impairments following traumatic brain injury. *Neurochemistry international*, 150, 105173.

Alarcón-Vila C, et al. (2020) CD14 release induced by P2X7 receptor restricts inflammation and increases survival during sepsis. *eLife*, 9.

He J, et al. (2020) Extracellular vesicles transmitted miR-31-5p promotes sorafenib resistance by targeting MLH1 in renal cell carcinoma. *International journal of cancer*, 146(4), 1052.

Menon R, et al. (2020) Protein Profile Changes in Circulating Placental Extracellular Vesicles in Term and Preterm Births: A Longitudinal Study. *Endocrinology*, 161(4).

Peak TC, et al. (2020) Syntaxin 6-mediated exosome secretion regulates enzalutamide resistance in prostate cancer. *Molecular carcinogenesis*, 59(1), 62.

Deng X, et al. (2020) Long noncoding RNA CCAL transferred from fibroblasts by exosomes promotes chemoresistance of colorectal cancer cells. *International journal of cancer*, 146(6), 1700.

Cianciaruso C, et al. (2019) Molecular Profiling and Functional Analysis of Macrophage-Derived Tumor Extracellular Vesicles. *Cell reports*, 27(10), 3062.