

Curriculum Vitae

* Within 3 pages

	Name in Full	Nao Nishida-Aoki
	Country	Japan
	Affiliation	Global Center for Science and Engineering, Waseda University, Tokyo, Japan
	Email	nnishida@aoni.waseda.jp

Educational Background

2014 Ph.D., Graduate School of Agriculture, Kyoto University, Japan (Molecular Biology)
 2011 M.S., Graduate School of Agriculture, Kyoto University, Japan (Molecular Biology)
 2009 B.S., Faculty of Agriculture, Kyoto University, Japan (Biotechnology)

Professional Career

2026-present Associate Professor (fixed term), Global Center for Science and Engineering
 Faculty of Science and Engineering, Waseda University, Tokyo, Japan
 2022-2026 Assistant Professor (fixed term), Waseda Institute for Advanced Study (WIAS),
 Waseda University, Tokyo, Japan
 2021-2022 Staff Scientist, Tokyo Medical University, Tokyo, Japan
 2017-2021 Postdoctoral Fellow, Fred Hutchinson Cancer Research Center, Seattle, WA, USA
 2014-2017 Postdoctoral Fellow, National Cancer Center Research Institute, Tokyo, Japan

Research Field

My research focuses on extracellular vesicle (EV)-mediated intercellular communication in cancer progression and metastasis. A major interest is to understand the mechanisms underlying organ-specific EV targeting and pre-metastatic niche formation. To address these questions, I use organotypic tissue slice models, live imaging, flow cytometry, and spatial transcriptomic approaches. Ultimately, my research aims to identify mechanisms of EV-mediated cancer-host interactions that can be exploited for therapeutic intervention.



Papers, Books, etc. presented or published by your name
 (topic title, year, conference name or presenting books)

Selected publications

1. **Nishida-Aoki N***, Ochiya T. Decoding Metastasis Initiation through spatiotemporal extracellular vesicle-mediated intercellular signaling. *Curr Opin Cell Biol.* 2026;101:102648.
2. Tamura T, Prieto-Vila M, **Nishida-Aoki N**, Hashimoto K, Shimomura A, Ochiya T. Sympathetic nerve-derived extracellular vesicles exert prometastatic functions in breast cancer via EMT-related microRNAs. *Cell Commun Signal.* 2026. In press.
3. **Nishida-Aoki N**[#], Zhu S[#], Chan M[#], Kang Y, Fujita M, et al. Drug screening in 3D microtumors reveals DDR1/2-MAPK12-GLI1 as a vulnerability in cancer-associated fibroblasts. *Cell Rep Med.* 2025;6:102357.
4. **Nishida-Aoki N***, Ochiya T. Elucidating Extracellular Vesicle Transfer in Tissue Context. Invited review in *Cancer Sci.* 2024;115:1726-1737.
5. Yamamoto T, Nakayama J, Urabe F, Ito K, **Nishida-Aoki N**, et al. Aberrant regulation of serine metabolite drives extracellular vesicle release and cancer progression. *Cell Rep.* 2024;43:114517.
6. **Nishida-Aoki N**, Gujral TS. Polypharmacologic reprogramming of tumor-associated macrophages towards an inflammatory phenotype. *Cancer Res.* 2022;82:433-446.
7. **Nishida-Aoki N**, Tominaga N, Kosaka N, Ochiya T. Altered biodistribution of deglycosylated extracellular vesicles through enhanced cellular uptake. *J Extracell Vesicles.* 2020;9:1713527.
8. **Nishida-Aoki N**, Izumi, Y., Takeda, H., Takahashi, M., Ochiya, T. & Bamba, T. Lipidomic Analysis of Cells and Extracellular Vesicles from High- and Low-Metastatic Triple-Negative Breast Cancer. *Metabolites.* 2020;10:67.
9. **Nishida-Aoki N**, Bondesson AJ, Gujral TS. Measuring Real-time Drug Responses in Organotypic Tumor Tissue Slices. *J Vis Exp.* 2020;159:e61036.
10. **Nishida-Aoki N**, Tominaga N, Fumitaka T, Sonoda H, Yoshioka Y, Ochiya T. Disruption of circulating extracellular vesicles as a novel therapeutic strategy against cancer metastasis. *Mol Ther.* 2017;25:181-191.

Selected presentation

* *Corresponding author*; # *Co-first author*

Selected invited/oral presentations: ISEV-ISCT Joint Satellite Meeting (2024); Japanese Cancer Association International Session (2025); JSEV-KSEV Joint Symposium (2025); American Society of Extracellular Vesicles (2025); ISEV Annual Meeting oral presentation (2026).

