

PUBLICATIONS (2022-present)

RESEARCH ARTICLES

1. Takahashi, Kazuki, Podyma-Inoue, K.A., Saito, M., Sakakitani, S., Sugauchi, A., Iida, K., Iwabuchi, S., Koinuma, D., Kurioka, K., Konishi, T., Tanaka, S., Kaida, A., Miura, M., Hashimoto, S., Okada, M., Uchihashi, T., Miyazono, K., and Watabe, T. (2022) TGF- β generates a population of cancer cells residing in G1 phase with high motility and metastatic potential via KRTAP2-3. *Cell Reports* 40 (13), 111411. DOI: [10.1016/j.celrep.2022.111411](https://doi.org/10.1016/j.celrep.2022.111411).
2. Tokizaki, S., Podyma-Inoue, K.A., Matsumoto, T., Takahashi, K., Kobayashi, M., Ibi, H., Uchida, S., Iwabuchi, S., Harada, H., Hashimoto, S., Miyazono, K., Shirouzu, M., and Watabe, T. (2024) Inhibition of transforming growth factor- β signals suppresses tumor formation by regulation of tumor microenvironment networks. *Cancer Science* 115 (1), 211-226. DOI: [10.1111/cas.16006](https://doi.org/10.1111/cas.16006).
3. Ohata, Y., Ali, M.M., Tsubakihara, Y., Itoh, Y., Rosén, G., Bergström, T., Morén, A., Golán-Cancela, I., Nakada, A., Voytyuk, O., Tsuchiya, M., Fukui, R., Yamamoto, K., Martín-Rubio, P., Sancho, P., Strell, C., Micke, P., Wechsler-Reya, R.J., Hashizume, Y., Miyazono, K., Caja, L., Heldin, C.-H., Swartling, F.J., and Moustakas, A. (2025) The transcription factor LHX2 mediates and enhances oncogenic BMP signaling in medulloblastoma. *Cell Death & Differentiation* 32, 1915-1929. DOI: [10.1038/s41418-025-01488-6](https://doi.org/10.1038/s41418-025-01488-6)
4. Ogikubo, K., Nishida, J., Takahashi-Yamashiro, K., Morikawa, M., Ehata, S., Watabe, T., Miyazono, K., and Koinuma, D. (2025) OCT-2 is associated with pro-metastatic epigenomic properties of triple-negative breast cancer cells. *Cancer Science* 116 (8), 2150-2162. DOI: [10.1111/cas.70093](https://doi.org/10.1111/cas.70093)
5. Morikawa, M., Koinuma, D., Sakai, H., Kanda, Y., Yuki, K., Okamoto, K., and Miyazono, K. (2025) SMAD1/5-mediated recruitment of the histone demethylase KDM1A controls cell fate programs in embryonic stem cells. *Journal of Biological Chemistry* 301 (9), 110591. DOI: [10.1016/j.jbc.2025.110591](https://doi.org/10.1016/j.jbc.2025.110591)
6. Takahashi-Yamashiro, K., Miyauchi, K., Shimomura, K., Nishikawa, M., Morishita, Y., Nakanishi, M., Hayami, S., Kawai, M., Miyazono, K., Ehata, S. (2026) In vitro functional analysis of lysyl oxidase family members in highly metastatic pancreatic cancer cells derived from a syngeneic orthotopic model. *BMC Cancer*, Online ahead of print. DOI: [10.1186/s12885-026-16173-1](https://doi.org/10.1186/s12885-026-16173-1)

7. Miao, Q., Huang, Z., Takahashi, K., Ibi, H., Miyazono, K., Podyma-Inoue, K.A., Watabe, T. (2026) Downregulation of KRTAP2-3 Suppresses Proliferation and Tumor Formation of Oral Cancer Cells via Inactivation of KRAS Signals. *Cancer Science*. DOI: [10.1111/cas.70355](https://doi.org/10.1111/cas.70355)

REVIEW ARTICLES

1. Ehata, S. and Miyazono, K. (2022) Bone morphogenetic protein signaling in cancer; Some topics in the recent 10 years. *Frontiers in Cell and Developmental Biology* 10, 883523. DOI: [10.3389/fcell.2022.883523](https://doi.org/10.3389/fcell.2022.883523).
2. Takahashi-Yamashiro, K., Miyazono, K. (2024) Tissue clearing method in visualization of cancer progression and metastasis. *Upsala Journal of Medical Sciences*. 129, e10634. DOI: [10.48101/ujms.v129.10634](https://doi.org/10.48101/ujms.v129.10634)
3. Miyazawa, K., Itoh, Y., Fu, H., and Miyazono, K. (2024) Receptor-activated transcription factors and beyond: multiple modes of Smad2/3-dependent transmission of TGF- β signaling. *Journal of Biological Chemistry* 300 (5), 107256. DOI: [10.1016/j.jbc.2024.107256](https://doi.org/10.1016/j.jbc.2024.107256).
4. ten Dijke, P., Miyazono, K., Heldin, C.-H., and Moustakas, A. (2024) Special issue: TGF- β and epithelial-mesenchymal transition in cancer. *Seminars in Cancer Biology* 102-103, 1-3. DOI: [10.1016/j.semcancer.2024.06.002](https://doi.org/10.1016/j.semcancer.2024.06.002).