

Dr. Luiza Martins Nascentes Melo

- Postdoctoral Fellow in the Institute of Tumor Metabolism and Department of Dermatology at the University Hospital Essen, Germany in the research laboratory of Prof. Dr. Alpaslan Tasdogan, MD/PhD.

and

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- Dr. Luiza M. Nascentes Melo is a member of a collaborative research team in Germany and the USA, whose aim is to gain insights into the metabolism of cancer cells and metastasis. The Tasdogan laboratory is engaged in the development of innovative metabolic tools and utilizes a diverse array of advanced metabolic techniques, including global metabolomics, isotope tracing, and spatial metabolomics, to investigate the metabolic processes of cancer cells and to explore novel therapeutic strategies.

Selected Publications:

- Nascentes Melo LM, Sabatier M., Ramesh V, Allies G., Szylo K., Fraser C., Pon A, Mitchell EC, Servage KA, Westedt I, Cansiz F., Krystkiewicz J., Kutritz A., Schadendorf D., Morrison SJ, Ubellacker JM*, Sreelatha A* and Tasdogan A*. Selenoprotein O promotes melanoma metastasis through antioxidant signaling, In Revision, 2024
- Shelton S, House S, Nascentes Melo LM, Allies G, Ramesh R, Chen Z, Wei T, Wang X, Llamas CB, Venigalla SSK, Menezes CJ, Zhao Z, Gill JG, DeBerardinis RJ, Schadendorf D, Morrison SJ, Mishra P* and Tasdogan A*. Pathogenic mitochondrial DNA mutations inhibit melanoma metastasis. In Press at Science Advances, 2024
- Imada S, Shin H, Khawaled S, Meckelmann SW, Whittaker C, Corrêa RO, Pradhan D, Calibasi-Kocal G, Nascentes Melo LM, Allies G, Wittenhofer P, Schmitz OJ, Roper J, Ramirez Vinolo MA, Cheng CW, Tasdogan A*, Yilmaz OH*. Short-term post-fast refeeding enhances intestinal stemness via polyamines. Nature, 2024

- Rogava M, Aparti TJ, Chi WY, Melms JC, Hug C, Davis S, Earlie EM, Tang S, Ho P, Amin AD, Berhe S, Caprio L, Gurjao C, Tagore S, Ngo B, Nascentes Melo LM, Allies G, Rösler J, Lee MJ, Wang Y, Chen S, Ge W, Schmitz OJ, Tüting T, Schadendorf D, Röcken M, Eigentler TK, Bakhoun SF, Molotkov A, Mintz A, Cantley LC, Sorger PK, Meckelmann SW, Tasdogan A, Liu D, Laughney AM, Izar B. Loss of Pip4k2c confers liver-metastatic organotropism through insulin-dependent PI3K-AKT pathway activation, *Nature Cancer*, 2024
- Nascentes Melo LM, Kumar S, Riess V, Szylo KJ, Eisenburger R, Schadendorf D, Ubellacker JM and Tasdogan A. Advancements in melanoma cancer metastasis models. *Pigment Cell Melanoma Res*, 2023
- Nascentes Melo LM, Lesner N, Ubellacker JM and Tasdogan A. Emerging Metabolomic Tools to Study Cancer Metastasis, *Trends in Cancer*, 2022