

List of publications

1. Lodde GC, Jansen P, Herbst R, Terheyden P, Utikal J, Pföhler C, Ulrich J, Kreuter A, Mohr P, Gutzmer R, Meier F, Dippel E, Weichenthal M, Sucker A, Placke JM, Zaremba A, Albrecht LJ, Kowall B, Galetzka W, Becker JC, **Tasdogan A**, Zimmer L, Livingstone E, Hadaschik E, Schadendorf D, Ugurel S, Griewank K (2023). Characterisation and outcome of RAC1 mutated melanoma. **Eur J Cancer Apr**;183:1-10.
2. Solari FA, Krahn D, Swieringa F, Verhelst S, Rassaf T, **Tasdogan A**, Zahedi RP, Lorenz K, Renné T, Heemskerk JWM, Sickmann A. (2023). Multi-omics approaches to study platelet mechanisms. **Curr Opin Chem Biol Apr**;73:102253
3. Placke JM, Mertens D, **Tasdogan A**, Chorti E, Schadendorf D, Ugurel S, Roesch A, Stoffels I, Klode J. (2023). Multispectral optoacoustic tomography to differentiate between lymph node metastases and coronavirus-19 vaccine-associated lymphadenopathy. **J Eur Acad Dermatol Venereol Jan 6**. doi: 10.1111/jdv.18847
4. Nascentes Melo LM, Kumar S, Riess V, Szylo KJ, Eisenburger R, Schadendorf D, Ubellacker JM and **Tasdogan A** (2023). Advancements in melanoma cancer metastasis models. **Pigment Cell Melanoma Res, Mar**;36(2):206-223.
5. Pachnis P, Wu Z, Faubert B, **Tasdogan A**, Gu W, Shelton S, Solmonson A, Rao A, Kaushik A, Rogers TJ, Ubellacker JM, LaVigne C, Ramesh V, Zacharias LG, Martin-Sandoval MS, Do D, Mathews TP, Zhao Z, Mishra P, Morrison SJ and DeBerardinis RJ (2022). In vivo isotope tracing reveals a requirement for the electron transport chain in glucose and glutamine metabolism by tumors. **Science Advances, Sep**;8(35):eabn9550.
6. Melo L, Lesner N, Ubellacker JM* and **Tasdogan A*** (2022). Emerging Metabolomic Tools to Study Cancer Metastasis, **Trends in Cancer** 8:988-1001. *corresponding author
7. Soflaee MH, Kesavan R, Sahu U, **Tasdogan A**, Villa E, Djabari Z, Cai F, Tran DH, Vu HS, Ali ES, Rion H, O'Hara BP, Kelekar S, Hallett JH, Martin M, Mathews TP, Gao P, Asara JM, Manning BD, Ben-Sahra I, Hoxhaj G. (2022) Purine nucleotide depletion prompts cell migration by stimulating the serine synthesis pathway. **Nat Commun** 16;13(1):2698.
8. Solmonson A, Faubert B, Gu W, Rao A, Cowdin MA, Menendez-Montes I, Kelekar S, Rogers TJ, Pan C, Guevara G, Tarangelo A, Zacharias LG, Martin-Sandoval MS, Do D, Pachnis P, Dumesnil D, Mathews TP, **Tasdogan A**, Pham A, Cai L, Zhao Z, Ni M, Cleaver O, Sadek HA, Morrison SJ and DeBerardinis RJ (2022). Compartmentalized metabolic activities support midgestation mammalian development. **Nature** 604(7905):349-353.
9. Aurora AB, Khivansara V, Leach A, Gill JG, Martin-Sandoval M, Yang C, Kasitinon SY, Bezwada D, **Tasdogan A**, Gu W, Mathews TP, Zhao Z, DeBerardinis RJ, Morrison SJ. (2022). Loss of glucose 6-phosphate dehydrogenase function increases oxidative stress and glutaminolysis in metastasizing melanoma cells. **Proc Natl Acad Sci U S A**, Feb 8;119(6):e2120617119.
10. **Tasdogan A***, Faubert B*, Morrison SJ, Mathews TP, DeBerardinis RJ. (2021). Stable isotope tracing to assess tumor metabolism in vivo. **Nature Protocols**, 16(11):5123-5145, *contributed equally to this work
11. Zhang J, Cohen A, Shen B, Du L, **Tasdogan A**, Zhao Z, Shane EJ, Morrison SJ. (2021). The effect of parathyroid hormone on osteogenesis is mediated partly by ostelectin. **PNAS**, 22;118(25):e2026176118.

12. **Tasdogan A***, Ubelacker JM*, Morrison SJ. (2021). Metabolic plasticity during metastasis. **Cancer Discovery**, 11(11):2682-269, *contributed equally to this work
13. Shen B, **Tasdogan A**, Ubelacker JM, Zhang J, Du L, Murphy MM, Hu S, Yi Y, Kara N, Liu X, Guela S, Jia Y, Ramesh V, Embree C, Mitchell EC, Hu Z, Zhao Z, Crane CM, Morrison SJ. (2021). A mechanosensitive peri-arteriolar niche for osteogenesis and lymphopoiesis. **Nature**. 591(7850):438-444.
14. DeVilbiss AW, Zhao Z, Martin-Sandoval MS, Ubellacker JM, **Tasdogan A**, Agathocleous M, Mathews TP, Morrison SJ. (2021). Metabolomic profiling of rare cell populations isolated by flow cytometry from tissues. **eLife**, 20;10:e61980.
15. Johnston K, Pachnis P, **Tasdogan A**, Faubert B, Vu D, Zacharias LG, Mathews TP, Ricciardino S, Johnson A, Rodgers-Augustyniak L, Zhao Z, Leavey P, Watt T, DeBerardinis RJ. (2021). Intra-operative isotope tracing in multiple pediatric solid tumors demonstrate broad utilization of oxidative metabolism. **Cell MED**, 9;2(4):395-410.
16. Schmid T, Maier J, Martin M, **Tasdogan A**, Tausch E, Barth TFE, Stilgenbauer S, Bloehdorn J, Möller P, Mellert K. (2020) U-RT1 - A new model for Richter transformation. **Neoplasia**. 11;23(1):140-148
17. Ubelacker JM, **Tasdogan A**, Ramesh V, Shen B, Mitchell EC, Martin-Sandoval MS, Zhimin Gu, McCormick ML, Durham AB, Spitz DR, Zhao Z, Mathews T, Morrison SJ. (2020). Lymph protects metastasizing melanoma cells from ferroptosis. **Nature** 585:113-118.
18. **Tasdogan A**, McFadden D, Mishra P. (2020). Mitochondrial DNA Haplotypes as Genetic Modifiers of Cancer. **Trends in Cancer** 23:S2405-8033(20)30236-3
19. **Tasdogan A**, Faubert B, Ramesh V, Ubellacker JM, Shen B, Solmonson A. Murphy MM, Gu W, Martin M, Mathews TP, Vandergriff T, Zhao Z, Schadendorf D, DeBerardinis RJ, Morrison SJ. (2020). Metabolic heterogeneity among melanoma cells confers differences in metastatic potential. **Nature** 577:115-120
20. Kasitinon SY, Eskiocak U, Martin M, Bezwada D, Khivansara V, **Tasdogan A**, Zhao Z, Mathews T, Aurora AB, Morrison SJ. (2019). TRPML1 Promotes Protein Homeostasis in Melanoma Cells by Negatively Regulating MAPK and mTORC1 Signaling. **Cell Reports** 28:2293-2305
21. Gu Z, Liu Y, Cai F, Patrick M, Zmajkovic J, Cao H, Zhang Y, **Tasdogan A**, Chen M, Qi L, Liu X, Li K, Lyu J, Dickerson KE, Chen W, Ni M, Merritt ME, Morrison SJ, Skoda RC, DeBerardinis RJ, Xu J. (2019). Loss of EZH2 Activates BCAA Metabolism to Drive Leukemic Transformation. **Cancer Discovery** 9:1228-1247
22. Shen B, Vardy K, Hughes P, **Tasdogan A**, Zhao Z, Crane G, Morrison SJ. (2019). Integrin alpha11 is an Osteolectin receptor and is required for the maintenance of adult skeletal bone mass. **eLife** e42274
23. Shi X, **Tasdogan A**, Huang F, Hu Z, Morrison SJ, DeBerardinis RJ. (2017). The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. **Science Advances** 3:eaa05268
24. Schmidt K, Zhang Q, **Tasdogan A**, Petzold A, Dahl A, Arneith BM, Slany R, Fehling HJ, Kranz A, Stewart AF, Anastassiadis K. (2018). The H3K4 methyltransferase Setd1b is essential for hematopoietic stem and progenitor cell homeostasis in mice. **eLife** e27157

25. Ouali Alami N, Schurr C, Olde Heuvel F, Tang L, Li Q, **Tasdogan A**, Kimbara A, Nettekoven M, Ottaviani G, Raposo C, Röver S, Rogers-Evans M, Rothenhäusler B, Ullmer C, Fingerle J, Grether U, Knuesel I, Boeckers TM, Ludolph A, Wirth T, Roselli F, Baumann B. (2018). NF- κ B activation in astrocytes drives a stage-specific beneficial neuroimmunological response in ALS. **EMBO J** 37.pii: e98697
26. Lee S, Liu P, Tschaffon M, Knoll J, **Tasdogan A**, Witting R, Frappart L, Bertolino P, Zhang C, Tuckermann J. (2018). A genetic benign jaw tumor mouse model by loss of menin in the osteoblast lineage in mice. **Oncogene** 37:616-626
27. Kraus LF, Scheurmann N, Frenzel DF, **Tasdogan A**, Weiss JM. (2018). 9-cis-Retinoic acid induces a distinct regulatory dendritic cell phenotype that modulates murine delayed-type allergy. **Contact Dermatitis** 78:41-54
28. Herzig J, Bullinger L, **Tasdogan A**, Zimmermann P, Schlegel M, Teleanu V, Weber D, Rücker F, Paschka P, Dolnik A, Schneider E, Kuchenbauer F, Heidel F, Buske C, Döhner H, Döhner K, Gaidzik V. (2017). Protein phosphatase 4 regulatory subunit 2 (PPP4R2) is recurrently deleted in acute myeloid leukemia and required for efficient DNA double strand break repair. **Oncotarget** 8:95038-95053
29. Minici C, Gounari M, Übelhart R, Scarfò L, Dühren-von Minden M, Schneider D, **Tasdogan A**, Alkhatib A, Agathangelidis A, Ntoufa S, Chiorazzi N, Jumaa H, Stamatopoulos K, Ghia P, Degano M. (2017). Distinct homotypic B-cell receptor interactions shape the outcome of chronic lymphocytic leukaemia. **Nature Communications** 8:15746
30. Tauc HM, **Tasdogan A**, Meyer P, Pandur P. (2017). Nipped-A regulates intestinal stem cell proliferation in Drosophila. **Development** 144:612-623
31. Gentner E, Vegi NM, Mulaw MA, Mandal T, Bamezai S, Claus R, **Tasdogan A**, Quintanilla-Martinez L, Grunenberg A, Döhner K, Döhner H, Bullinger L, Haferlach T, Buske C, Rawat VP, Feuring-Buske M. (2016). VENTX induces expansion of primitive erythroid cells and contributes to the development of acute myeloid leukemia in mice. **Oncotarget** 7:86889-86901
32. Gross A, **Tasdogan A**, Fehling HJ. (2017). The IFN-1 > BID > ROS pathway: Linking DNA damage with HSPC malfunction. **Cell Cycle** 16:819-820
33. **Tasdogan A**, Kumar S, Allies G, Bausinger J, Beckel F, Hofemeister H, Mulaw M, Madan V, Scharffetter-Kochanek K, Feuring-Buske M, Doehner K, Speit G, Stewart AF, Fehling HJ. (2016). DNA Damage-Induced HSPC Malfunction Depends on ROS Accumulation Downstream of IFN-1 Signaling and Bid Mobilization. **Cell Stem Cell** 19:752-767
34. Vettorazzi S, Bode C, Dejager L, Frappart L, Shelest E, Kläßen C, **Tasdogan A**, Reichardt HM, Libert C, Schneider M, Weih F, Henriette Uhlenhaut N, David JP, Gräler M, Kleiman A, Tuckermann JP. (2015). Glucocorticoids limit acute lung inflammation in concert with inflammatory stimuli by induction of SphK1. **Nature Communications** 6:7796
35. Mühl B*, Hägele J*, **Tasdogan A***, Loula P, Schuh K, Bundschu K. (2015). SPREDs (Sprouty related proteins with EVH1 domain) promote self-renewal and inhibit mesodermal differentiation in murine embryonic stem cells. **Developmental Dynamics** 244:591-606 *contributed equally to this work

36. Gatzka M, **Tasdogan A**, Hainzl A, Allies G, Maity P, Wilms C, Wlaschek M, Scharffetter-Kochanek K. (2015). Histone H2A deubiquitinase 2A-DUB/Mysm1 regulates critical checkpoints of early T cell development and lymphopoiesis via p53-dependent and –independent mechanisms. **Cell Death Differ** 22:1451-62
37. Tauc HM*, **Tasdogan A***, Pandur P. (2014). Isolating intestinal stem cells from adult Drosophila midguts by FACS to study stem cell behavior during aging. **J Vis Exp** 94
*contributed equally to this work
38. Gatzka M, Hainzl A, Peters T, Singh K, **Tasdogan A**, Wlaschek M, Scharffetter-Kochanek K. (2013). Reduction of CD18 promotes expansion of inflammatory $\gamma\delta$ T cells collaborating with CD4+ T cells in chronic murine psoriasiform dermatitis. **J Immunol** 191:5477-882.
39. Luche H, Nageswara Rao T, Kumar S, **Tasdogan A**, Beckel F, Blum C, Martins VC, Rodewald HR, Fehling HJ. (2013) In vivo fate mapping identifies pre-TCR α expression as an intra- and extrathymic, but not prethymic, marker of T lymphopoiesis. **J Exp Med** 210:699-714.