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TGFβ signaling in cancer progression

Liu, S.

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Author: Liu, S.
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Stellingen

behorende bij het proefschrift

TGFβ signaling in cancer progression

1. Deubiquitinase (DUB) activity profiling is an elegant approach to draw a landscape of global DUB activities in breast cancer subtypes. (This thesis)

2. UCHL1 promotes TGFβ-induced breast cancer metastasis and is highly enriched in the exosome fraction of TNBC cell conditioned media and TNBC patient sera. (This thesis)

3. Cell permeable activity-based probes for DUBs are useful tools for studying their activity *in vitro* and *in vivo*. (This thesis)

4. Targeting TGFβ type I receptor can combat the development of vemurafenib drug-resistance in advanced melanoma. (This thesis)

5. TGFβ family members regulate the fate of cell during development, tissue homeostasis and regeneration, and are major players in tumorigenesis, fibrotic disorders, immune malfunctions and congenital diseases. (David et al, 2018, Nat Rev Mol Cell Biol)

6. DUBs are key determinants of cellular processes that are highly relevant to pathologies such as oncology, autoimmune disorders, chronic inflammation and neurodegeneration. (Harrigan et al, 2018, Nat Rev Drug Discov)

7. The contents of exosome secreted by cancer cells reflect the biological changes that are associated with cancer progression, potentially offering a comprehensive assessment of cancer diagnosis, prognosis, and progression. (LeBleu et al, 2020, Trends Cancer)

8. Breast cancer high-resolution proteomic profiling identified TGFβ type II receptor and UCHL1 as specific proteins that are highly enriched in aggressive TNBC basal B subclass cell lines. (Kosok et al, 2020, iScience)

9. Hope for the best, prepare for the worst, never lose curiosity in between. (Inspired by Maya Angelou and Albert Einstein)

10. Yesterday is history, tomorrow is a mystery, today is a gift, that's why we call it the present. (Inspired by Alice Morse Earle)