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A screening based approach to find new paths for targeted treatment in chondrosarcoma

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Stellingen behorende bij het proefschrift:

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1. Bcl-xl is the most important Bcl-2 family member in chondrosarcoma; high expression in chondrosarcoma cells increases the apoptotic threshold. *This thesis*
2. Cell cycle related kinases are deregulated in chondrosarcoma cells and might serve as therapeutic targets in a subset of chondrosarcomas. *This thesis*
3. mTOR is a central player in the metabolism of chondrosarcoma cells and dual inhibition of mTORC1 and mTORC2 leads to a cytostatic, but not a cytotoxic response, warranting combination strategies. *This thesis*
4. Chondrosarcoma is a heterogeneous tumour, complicating the search for new therapeutic targets. *This thesis*
5. Multi-omics profiling can help to identify patients with aggressive chondrosarcoma and will reveal personalized targeted therapy options. *Rémy Nicolle et al. Integrated molecular characterization of chondrosarcoma reveals critical determinants of disease progression. Nat. Commun (2019)*
6. 3D cultures, more closely mimicking the patient situation are the future of translational research *Jihoon Kim, Bon-Kyoung Koo, Juerger A. Knoblich. Human organoids: model systems for human biology and medicine. Nat Rev Mol Cell Biol (2020)*
7. The use of CRISPR based technologies has been the start of a new chapter in cancer drug target discovery. *Benjamin Haley and Filip Roudnický. Functional genomics for Cancer Drug Target Discovery. Cancer Cell (2020)*
8. Single cell and spatial genomics can give more insight into tumour development, heterogeneity and possible treatment options. *Bora Lim, Yiyun Lin, Nicholas Navin. Advancing Cancer Research and Medicine with Single-Cell genomics. Cancer Cell (2020)*
9. Improving the lives of patients is the main motivation for doing research
10. "We are only as strong as we are united, as weak as we are divided." *J.K. Rowling, Harry Potter and the Goblet of Fire. (2000)*

Working together in science instead of competing will lead to higher quality research, especially for rare diseases.