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Harnessing the immunostimulatory properties of oncolytic reovirus for anticancer immunotherapy

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Harnessing the immunostimulatory properties of oncolytic reovirus for anticancer immunotherapy

1. The immunostimulatory potential of oncolytic reovirus can be exploited to enhance the efficacy of T-cell-based immunotherapy – *This thesis*
2. Vaccine-induced reovirus-specific T cells effectively delay tumor growth upon intratumoral reovirus administration – *This thesis*
3. The oncolytic efficacy, but not the T-cell-attracting capacity of oncolytic reovirus is restricted by the presence of preexisting neutralizing antibodies – *This thesis*
4. Intertumoral differences determine whether TGF- β blockade improves or impairs the efficacy of reovirus-based combination therapy – *This thesis*
5. Improving outcomes with immunotherapy requires combinations that are tailored to the distinct immune contexts in the tumor microenvironment – *Kirchhammer et al (2022) Science Translational Medicine*
6. The choice of combination agents and how to sequence them with oncolytic viruses is highly debated and requires further (pre)clinical study – *Adapted from Macedo et al (2020) Journal for ImmunoTherapy of Cancer*
7. Prior to embarking on large combination clinical trials, it may be prudent to understand the biology of oncolytic virus delivery in more detail to better optimize dosing, schedules and routes of administration – *Kaufman et al (2019) Journal for ImmunoTherapy of Cancer*
8. Given the multifaceted physiological roles of TGF- β , both in the immune system and beyond, therapeutic approaches to target this cytokine for cancer therapy need to be stringently vetted for safety and efficacy – *Nixon et al (2022) Nature Reviews Immunology*
9. “Kennis is georganiseerde wetenschap, maar wijsheid is georganiseerd leven” – *geïnspireerd door Immanuel Kant*
10. “Een kamer zonder boeken is net zo leeg als een lichaam zonder ziel” – *geïnspireerd door Marcus Tullius Cicero*
11. Een goed grafisch abstract zegt meer dan 1000 woorden
12. Het bezoeken van een tuincentrum kan ook gezien worden als “submitting to Nature”, en de kans op een positief resultaat is aanzienlijk groter