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Next generation of cell based therapies for cancer

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Stem cell based therapies are emerging as a promising strategy to tackle cancer. We have developed tumor cell surface receptor targeted adult stem cells expressing novel bi-functional immunomodulatory proteins and oncolytic viruses. Using our recently established invasive, recurrent and resection models of primary and metastatic tumors that mimic clinical settings, we have shown the efficacy of engineered stem cells in combination with immune check point inhibitors. These studies demonstrate the strength of employing engineered immunomodulatory stem cells in preclinical-therapeutic tumor models and form the basis for their clinical translation. This presentation considers the current status of immunomodulatory stem cell based treatments for cancer and provides a rationale for translating the most promising preclinical studies into the clinic.

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