Therapeutic targeting of immune escaped cancers

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STELLINGEN

behorende bij het proefschrift

THERAPEUTIC TARGETING OF IMMUNE ESCAPED CANCERS

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1. Peptides derived from alternative antigen-processing pathways are a source of immunogenic peptides for immunotherapy. (*this thesis*)
2. TEIPP antigens mark immune escaped cancers that are otherwise invisible for conventional T cells. (*this thesis*)
3. Metabolic stress induced PI3K hyperactivation induces IFN-resistance in tumor cells. (*this thesis*)
4. Understanding the mechanisms underlying cancer cell immune escape, determines the immunotherapeutic strategy with the highest change of clinical success. (*this thesis*)
5. IFNγ-receptor signaling in cancer cells is essential for effective anti-tumor immunity, but this pathway is often deregulated. – *Budhwani et al., Frontiers in Oncology, 2018*
6. The metabolic landscape of the tumor microenvironment is an important immuno-metabolic checkpoint for tumor immunotherapy. – *Lyssiotis and Kimmelman, Trends in Cell Biology, 2017*
7. Metabolic pathways impacts most, if not all, cellular functions in tumor biology, from cancer cell proliferation and invasion to metastasis and immune resistance. – *Vander Heiden, Molecular cell, 2014*
8. Tumors are more than insular masses of proliferating cancer cells. – *Hannahan and Weinberg, Cell, 2011*
9. The truth is undeniable. People may attack it, people may ignore it, but in the end, there it is. – inspired by *Winston Churchill*
10. Science is organized knowledge. Creativity is the ability to re-organize knowledge. – inspired by *Herbert Spencer and Albert Einstein*
11. Unthinking respect for authority is the greatest enemy of scientific progress. – inspired by *Albert Einstein*
12. Scientific creativity is confined by the borders of statistical probability. – inspired by *Thomas Huxley*