

Tumor heterogeneity in glioblastoma

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Propositions accompanying the dissertation

Tumor heterogeneity in glioblastoma a real-life brain teaser

- 1. Tumor heterogeneity is a major determinant of treatment failure in glioblastoma patients and improved methods of dealing with this is pivotal to improve patient prognosis (this thesis).
- 2. Patient-derived cancer organoids are a promising tool in pre-clinical and translational cancer research to study treatment response and resistance (this thesis).
- 3. For patient-derived cancer organoids to become clinically relevant, further standardization, optimization and validation is needed in order to reach their full potential (this thesis).
- 4. Quantitative and qualitative imaging analysis can aid in developing prognostic and predictive models for glioblastoma patients, but general implementation still faces many challenges (this thesis).
- 5. Improving understanding of the immune cell landscape and its interaction with glioblastoma cells can aid in developing more promising strategies for immunotherapy in glioblastoma (this thesis).
- 6. More accurate prediction of treatment response can lead to improved patient' survival as well as preventing morbidity and treatment costs related to ineffective treatment options (impact of this thesis).
- 7. Do you have a plan? I don't even have a pla.. (Phoebe Buffay)
- 8. Everything is theoretically impossible until it is done. (Robert A. Heinlein)
- 9. The way to get started is to quit talking and begin doing. (Walt Disney)