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## Deciphering the crosstalk of the mTORC1 and MAPK networks in cancer

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## Propositions

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To accompany the dissertation

### **Deciphering the crosstalk of the mTORC1 and MAPK networks in cancer**

1. We assign a new function to the key oncogenic kinases PI3K and p38: next to enhancing translation, they increase tumor cell survival through stress granule formation. – *this thesis*
2. In glioblastoma, the consequences of Trp depletion due to its degradation and the impact thereof for tumor treatment are poorly understood. – *this thesis*
3. A better understanding of the crosstalk of the mTOR and MAPK pathways could lead to a better design of combinatorial treatments – *this thesis*
4. As we ponder the remarkable and numerous ways in which translational control can be usurped in cancer biology, we are left to discover exciting and promising paths to therapeutic interventions. – *Robichaud et al, Cold Spring Harb Perspect Biol, 2018*
5. The apparent simplicity of TGF $\beta$ 's two-step signal transduction process belies the diversity of cellular responses that it elicits in different cellular contexts. - *David and Massagué, Nat Rev Mol Cell Biol. 2018*
6. La perfección es una pulida colección de errores - *Mario Benedetti*
7. 'T is nait aal doagen kovvie mit kouk/ Het is niet elke dag koffie met koek – *Gronings gezegde*

**Patricia Razquin Navas**