

# Mitochondria in a personalized cancer treatment approach

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**Mitochondria in a personalized cancer treatment approach**

Marika W. van Gisbergen

Maastricht, 29 maart 2017

1. Influencing mitochondrial function can be an asset for better cancer treatment modalities. (This thesis)
2. Proper patient stratification is essential for effective cancer treatment. (this thesis)
3. Selective targeting of cancer cells contributes to the reduction of side-effects in normal tissues. (this thesis)
4. GST overexpression is a promising target in the treatment of chemoresistant tumors. (this thesis)
5. The world of mitochondria is "hyper-dynamic". (Marvin Edeas)
6. Future research in the field of mtDNA and mitochondrial function in cancer should focus on the question if alterations are causes or consequences of tumorigenesis.
7. Characterizing molecular mechanisms of tumors, its micro-environment and the involved normal tissue will contribute to a personalized treatment approach.
8. Repurposing drug approaches will reduce drug development and treatment costs. (Paul Workman et al., Cell, 2017)
9. If we knew what it was we were doing, it would not be called research, would it? (Albert Einstein)
10. Dans la vie, rien n'est à craindre, tout est à comprendre. (Marie Curie)