

Imaging of tumor hypoxia with PET

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Propositions belonging to the thesis

**Imaging of tumor hypoxia with PET:
a step towards individualized cancer treatment**

Karen Zegers
Maastricht, 9th of March 2016

1. A good repeatability of hypoxia PET imaging is essential for its ability to aid hypoxia targeted treatments (*this thesis*)
2. Optimal PET acquisition parameters are necessary to obtain useful imaging data to visualize and quantify tumor hypoxia (*this thesis*)
3. Hypoxia PET imaging gives complimentary information to metabolic FDG imaging (*this thesis*)
4. [¹⁸F]HX4-PET imaging can monitor changes in hypoxia during treatment (*this thesis*)
5. The use of radiation is essential in state-of-the art healthcare
6. Hypoxia PET uptake is not necessarily inversely related with tumor blood flow (*Iqbal 2015*)
7. Hypoxia PET may be useful to select patient having benefits from nimorazole as radiosensitizer (*Tran et al. 2015*)
8. Hypoxia PET imaging can be used in window-of-opportunity trials to assess the efficacy of new hypoxia targeting drugs and can therefore speed up drug development (*Valorization, Dubois et al. 2015*)
9. All our dreams can come true if we have the courage to pursue them (*Walt Disney*)
10. Be not afraid of going slowly. Be only afraid of standing still (*Chinese proverb*)
11. You have to fight through some bad days to earn the best days of your life