Propositions belonging to the thesis

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

Karen Zegers
Maastricht, 9\textsuperscript{th} 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. \(^{18}\text{F}\)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*