

Exploiting tumor hypoxia for cancer treatment

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PROPOSITIONS ACCOMPANYING THE DISSERTATION

Exploiting tumor hypoxia for cancer treatment

1. Novel ^{68}Ga -labeled CA IX targeting small-molecule PET tracers can reliably image tumoral CA IX in a noninvasive manner. *This thesis.*
2. Dual-target drugs are of interest as anticancer agents but require extensive preclinical characterization. *This thesis.*
3. The novel hypoxia-activated prodrug CP-506 is a promising candidate for further preclinical evaluation and clinical efficacy validation in combination with other anticancer treatments. *This thesis.*
4. Stratification of patients in clinical trials based on hypoxia status of the tumors likely increases the chance to proof the beneficial effect of hypoxia-activated prodrugs. *This thesis.*
5. Exploiting tumor hypoxia can provide new tools that improve survival of cancer patients and reduce the impact of cancer on society. *This thesis; valorization.*
6. Tumor hypoxia is a promising therapeutic target to exploit in cancer treatment.
7. “Despite its lack of immediate success, the field of hypoxia-activated prodrug development has produced a wealth of knowledge, understanding and expertise.” *Roger M. Phillips (Professor of Cancer Pharmacology at the University of Huddersfield, England)*
8. “Medicine [...] does not consist of compounding pills and plasters; it deals with the very processes of life, which must be understood before they may be guided.” *Paracelsus (Swiss physician, alchemist, and astrologer; 1493/4 – 1541)*
9. “Good books don’t give up all their secrets at once.” *Stephen King (American novelist)*
10. “Be careful when speaking. You create the world around you with your words.”
Quote attributed to the Diné (Navajo) storytelling tradition.
11. Don’t stress :-)

Raymon Niemans

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