

Hyperthermia-induced degradation of BRCA2

From bedside to bench and back again

1. It is currently unclear whether physics or biology will make the largest contribution to driving hyperthermia application in cancer treatment forward.
This thesis and Dewhirst et al, Int J Hyperthermia, 2017
2. To optimally attenuate homologous recombination, hyperthermia should be applied for one hour in the range between 41-43 °C, following rather than preceding irradiation.
This thesis
3. Incorrect localization of RAD51 may be a better biomarker for heat deposition *in situ* than heat-mediated degradation of BRCA2.
This thesis
4. Identifying the type of proteasome that mediates the final step of BRCA2 degradation upon hyperthermia treatment is not straightforward.
This thesis
5. HSP90 is currently the most promising target to enhance local effects of hyperthermia.
This thesis
6. Hyperthermia is generally regarded as an experimental treatment with no realistic future in clinical cancer therapy. This is totally wrong.
Horsman and Overgaard, Clinical Oncology, 2008
7. Cancer is a disease of the genes. If not eradicated, cancer can therefore always find a way to develop resistance to precision medicine.
8. Both scientists who aim to find a cure for cancer and cancer patients undergoing treatment should adhere to the Alpe 'd Huzes motto: "opgeven is geen optie".
9. The most dangerous result is the one you were hoping for.
Levi Garraway, Nature 2017
10. It's not a silly question if you can't answer it.
Jostein Gaarder, Sophies Verden, 1991
11. Angst is mar veur eben, spiet is veur altied.
Daniël Lohues, Allenig II, 2008