"Ubiquitin-Mediated Regulation of Damage Recognition

in Nucleotide Excision Repair"

- Their swift induction, reversibility and ability to regulate stability, activity and binding of other proteins make PTMs a very suitable regulator 'of complex biological processes'. (This thesis and others)
- 2. The DNA damage recognition steps of NER are highly regulated by post translational modifications. (This thesis)
- 3. RNF111-mediated ubiquitylation stimulates the release of XPC, which is required for efficient progression of the NER reaction. (This thesis)
- 4. A bimodal switch that controls stable binding of XPC to DNA damage, allows cells to prioritize repair of lesions in actively transcribed genes under mild genotoxic stress. (This thesis)
- 5. RPA is an intrinsically highly dynamic ssDNA-binding complex in replication and the preand post-incision steps of NER. (This thesis)
- 6. Regulation of DNA repair mechanisms is probably as important as having them.
- 7. Generation of large omics data sets is not rate limiting, but their validation and functional analysis are.
- 8. Tumor heterogeneity is one of the greatest challenges for cancer therapy.
- 9. Over 30% of cancer could be prevented, mainly by not using tobacco, having a healthy diet, being physically active and moderating the use of alcohol (World Health Organization).
- 10. Archiving or publishing 'negative results' would prevent unnecessary repetition of research. 'Knowledge that has not been documented is knowledge that does not exist'.
- 11. Science is about never growing up. You just have to keep asking why and using your imagination.