

**Stellingen behorend bij het proefschrift:
A microscopic study of the DNA damage response**

1. Irradiation with 405 nm light of cells presensitized with the DNA binding agent Hoechst 33342 should not be used as the main DNA damage source in studies into the DNA damage response. *This thesis, (Williams et al, Nature Genetics 39, 6, 2008)*
2. HP1 is involved in a novel cellular DNA damage response. *This thesis*
3. DNA damage induction causes association of HP1 with damaged chromatin, and not dissociation from chromatin as was claimed by Ayoub et al., Nature 453:682-6, 2008. *This thesis*
4. FACT removes a H2A/H2B dimer from damaged chromatin either by binding damage directly or via an unknown damage recognition protein. *This thesis*
5. Most of the binding events of multi-protein complex formation do not occur in a fixed order. *This thesis*
6. Phenotypical differences between closely related organisms are often caused by differences in gene regulation rather than by differences in nucleotide sequence.
7. Genetic alteration of humans is not by definition morally wrong.
8. Religion is corrosive to science just as science is corrosive to religion. *Richard Dawkins*
9. The universe we observe has precisely the properties we should expect if there is, at bottom, no design, no purpose, no evil, no good, nothing but blind, pitiless indifference. *Charles Darwin (1809-1882)*
10. There is no scientific evidence for the assumption that we are not intelligent enough to understand our own brain's functioning.
11. Determinism is incompatible with free will. Indeterminism is also incompatible with free will.