Stellingen

behorend bij het proefschrift

β-Globin Gene Regulation and Nuclear Organisation

1. p45 NF-E2 is dispensable for β-globin Active Chromatin Hub formation.
   (This thesis)

2. The detection of a given ligation product with 3C does not necessarily imply that there is a specific interaction between the analysed sites.
   (This thesis)

3. CTCF mediates long-range chromatin looping in the β-globin locus.
   (This thesis)

4. The relative positioning of active and inactive regions as well as the distribution of repetitive DNA elements determine the relative positioning and spatial conformation of chromosomes.
   (This thesis)

5. Transcriptional regulation is preferentially studied in the context of whole loci, so that essential regulatory elements are not excluded or overlooked.
   (*This thesis)*

6. A 'thousand-dollar genome' could become an important tool to realise personalised medicine.
   (Wolinsky, EMBO Reports (2007), 8, 900-903)

7. Screening for aberrant positioning patterns of genes and chromosomes might be exploited for diagnostic purposes in the near future.
   (Meaburn et al., Nature (2007), 445, 379-381)

8. Identification of transcription factor binding sites at a whole-genome level will be boosted by advances in high-throughput DNA sequencing.
   (Fields, Science (2007), 316, 1441-1442)

9. An important factor in the general acceptance of biometric techniques for personal identification is the actual protection of data generated by these methods.

10. The best strategy to promote translational research is to make investments in fundamental research.

11. The initial joy you feel when submitting your first paper turns into despair if you are confronted with online submission systems.