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Stellingen
Behorend bij het proefschrift “Osteosarcoma Models: Understanding Complex Disease”

1. Osteosarcoma originates from a “vulnerable” mesenchymal stem cell which undergoes partial osteogenic differentiation (this thesis).

2. During crisis mesenchymal stem cells undergo critical changes followed by “survival of the fittest” selecting for highly aggressive malignantly transformed cells (this thesis).

3. The genomic homozygous deletion of p16 in human osteosarcoma validates the mouse mesenchymal stem cell model as representative for human disease (this thesis).

4. Regular pathogen contamination checks and DNA STR profiling should be required when publishing research using cell lines (this thesis).

5. Cancer stem cells are likely to arise from mutations that dysregulate normal stem cell self-renewal; the bone cancer stem cell could be interpreted as a mutated mesenchymal stem cell (Pardal et al. Nat Rev Cancer. 2003 Dec;3(12):895-902).

6. Zebrafish is not only an alternative vertebrate animal model for cancer, it is often even superior to other models for its technical and financial advantages (Mione et al. Dis Model Mech. 2010 Sep;3(10):517-23).

7. In lymphoblastic leukemia cells with tumorigenic capacity in xenografts, p16 was found to be deleted and patients were associated with poor outcome (Notta et al. Nature. 2011 Jan;469(7330):362-7).


9. Innovation distinguishes between a leader and a follower (Steve Jobs).

10. Most people say that it is the intellect which makes a great scientist. They are wrong: it is character (Albert Einstein).


12. Herschikken van bestaande informatie kan voldoende zijn voor nieuwe oplossingen, denk daarom lateraal.

Leiden, 27 juni 2012