Signaling Pathways in Cancer: a Matter of Dosage

Stellingen

1. Specific β-catenin activity levels resulting from different *APC* mutations may affect proliferation, differentiation and apoptosis is a tissue-specific fashion, thus triggering tumorigenesis in a subset of organs throughout the body. (*this thesis*)
2. Specific levels of Apc/β-catenin signalling differentially affect stem cell differentiation. (*this thesis*)
3. The difference between the *Apc*1572T and the *Apc*1638T truncated proteins, namely the Axin-binding SAMP motif pinpoints to a key role for this functional domain in Wnt signalling regulation during embryonic development. (*this thesis*)
4. β-catenin intracellular accumulation apparently underlies not only tumor initiation at the primary site but also invasion and metastasis formation at distant sites. (*this thesis*)
5. Haploinsufficiency for *Apc* and *Smad4* lead to intermediate levels of the Wnt and TGF-β/BMP pathways, respectively. (*this thesis*)
6. Truth in science can be defined as the working hypothesis best suited to open the way to the next better one. (*Konrad Lorentz*)
7. I don't believe there is a single mouse that doesn't have a phenotype. (*Mario Capecchi*, *Nature 2002*)
8. Cancer genes play a subtle game of subversion that we could ultimately use against them. (*Emmanuelle Passegué*, *Nature 2006*)
9. Do not put your faith in what statistics say until you have carefully considered what they do not say. (*William W. Watt*)
10. Experience is the name every one gives to their mistakes. (*Oscar Wilde*)
11. If you want to live a happy life, tie it to a goal, not people or things. (*Albert Einstein*)