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Targeting chondrosarcoma and osteosarcoma cell metabolism : the IGF pathway and beyond

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Author: Peterse, Elisabeth

Title: Targeting chondrosarcoma and osteosarcoma cell metabolism : the IGF pathway and beyond

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Stellingen

behorende bij het proefschrift

Targeting Chondrosarcoma and Osteosarcoma cell metabolism

-The IGF pathway and beyond

1. The huge increase in osteosarcoma *in vitro* studies with limited scientific value constrains the identification of new therapies for this deadly disease. ***This thesis***
2. The strong preclinical rationale for targeting the IGF-pathway in osteosarcoma deserves further clinical and translational exploration. ***This thesis***
3. Monolayer-cultured cells are not a representative model to study IGF pathway activity in chondrosarcoma. ***This thesis***
4. *IDH1/2* mutant chondrosarcomas do not require a different therapeutic approach than *IDH1/2* wildtype chondrosarcomas. ***This thesis***
5. The Chinese evaluation system, relying on the science citation index as a main indicator for medical career evaluation, damages China's scientific research capability and credibility. ***Ye & Liu, Lancet, 2013: 381(9882): 1984.***
6. Osteosarcoma exhibits a degree of mutational diversity akin to the most common types of human cancer. ***Behjati et al. Nat Commun, 2017: 8: 15936***
7. While mutations in *IDH1/2* are an early event in tumorigenesis, chondrosarcoma is not dependent on mutant *IDH1/2* anymore. ***Suijker et al. Oncotarget, 2015: 6(14): 12505-12519***
8. The chronic and often uncontrolled cell proliferation that represents the essence of neoplastic disease involves not only deregulated control of cell proliferation but also corresponding adjustments of energy metabolism in order to fuel cell growth and division. ***Hanahan & Weinberg, Cell, 2011: 144(5):646-74.***
9. Publishing negative research results is as important as publishing positive ones.
10. "Great things are not done by impulse, but by a series of small things brought together" (***Vincent Van Gogh, 1882***) - *All small steps combined lead to success down the road.*
11. "Live as if you were to die tomorrow. Learn as if you were to live forever" (***Mohandas Karamchand Gandhi, 02-10-1869 – 30-01-1948***) - *It is challenging to find the right balance between focussing on your future goals and enjoying the moment.*