

Replicating DNA at top speed : chromatin at risk

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Stellingen

Behorende bij het proefschrift

Replicating DNA at Top Speed Chromatin at Risk

- 1 PRC1 heeft meer functies dan transcriptionele regulatie. (dit proefschrift)
 - 2 Chromatine is kwetsbaar tijdens versnelde celdeling en differentiatie. (dit proefschrift)
 - 3 Egr1 is een van de eerste factoren die chondrogene epigenomische herprogrammering initieert. (dit proefschrift)
 - 4 Terminale chondrogene differentiatie vertoont overeenkomsten met cellulaire veroudering. (dit proefschrift)
 - 5 Trp53-afhankelijke inhibitie van versnelde celdeling door valproaat geeft nieuwe mogelijkheden voor de behandeling van kanker. (dit proefschrift)
 - 6 Many challenges remain, but “the major problem, I think, is chromatin... you can inherit something beyond the DNA sequence. That’s where the real excitement of genetics is now” (Watson, *Sci. Am.* 288, 66–69, 2003).
 - 7 Counter intuitively, senescent cells may contribute to tumorigenesis by virtue of the SMS, which can cause stromal components to senesce, thereby promoting a pro-mitogenic loop (Kuilman T and Peeper DS. *Nat. Rev.* 9, 81-94, 2009).
 - 8 Differentiatie van een totipotente bachelor via een pluripotente master naar een committed PhD student is een epigenetische proces waarbij met name imprinting een rol speelt.
 - 9 Voor alles is er een tijd en een plaats.
 - 10 Al is empirisme doorgaans de leidraad van wetenschappelijk onderzoek, men dient oog te hebben voor serendipiteit.
 - 11 Together we stand, divided we fall. - Pink Floyd -
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