

Talking to chromatin : polycomb function in gene environment interactions

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Stellingen

behorende bij het proefschrift

Talking to Chromatin

Polycomb function in gene environment interactions

- 1) Chromatine dissociatie van Polycomb eiwitten is afhankelijk van zowel MAPK als SAPK signalering (dit proefschrift).
- 2) MK3 is betrokken bij de negatieve terugkoppeling op MEK-MAPK signalering (dit proefschrift).
- 3) Stressgeïnduceerde Bmi1 afbraak gaat gepaard met KAP1 gemedieerde ubiquitylering (dit proefschrift).
- 4) Hypoxie resulteert in een toename van zowel activerende als repressieve histonmodificaties (dit proefschrift).
- 5) Acute activatie van een (proto-)oncogen resulteert vaak eerst in tumor-suppressie.
- 6) Het leven zit vol tegenstrijdigheden, waarvan de afhankelijkheid van de toxische component zuurstof wellicht de grootste is.
- 7) Behoud van balans is niet alleen essentieel op celniveau.
- 8) Een geplande infectie brengt onderzoek één stap vooruit. Een ongeplande infectie zet onderzoek tien stappen terug.
- 9) Geen pieken zonder dalen.
- 10) Verstand hebben en verstandig handelen gaan niet noodzakelijkerwijs samen.
- 11) "*Veel wijsheid ligt in korte woorden besloten*" (Sophokles).

Propositions

belonging to the thesis

Talking to Chromatin

Polycomb function in gene environment interactions

- 1) Chromatin dissociation of Polycomb proteins depends on both MAPK and SAPK signaling (this thesis).
- 2) MK3 is part of a negative regulatory mechanism on MEK-MAPK signaling (this thesis).
- 3) Stress-induced Bmi1 degradation involves KAP1-mediated ubiquitylation (this thesis).
- 4) Hypoxia induces an increase in both activating and repressive histone modifications (this thesis).
- 5) Acute activation of a (proto-)oncogene often initially evokes tumor suppression.
- 6) Life is full of contradictions of which the dependency on the toxic component oxygen may be the most profound one.
- 7) Maintaining balance is not only essential at the cellular level.
- 8) A planned infection takes research one step further.
An unplanned infection takes research ten steps back.
- 9) Peaks and dips only co-exist.
- 10) To be wise and to act wise does not necessarily go together.
- 11) "*Much wisdom often goes with fewer words*" (Sophocles).