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## **The responses of cardiac cells to stress : focus on irradiation and mechanical stretch**

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# Stellingen

Behorende bij het proefschrift:

## **The responses of cardiac cells to stress: focus on irradiation and mechanical stretch**

1. There is no direct link between the induction of apoptosis of cardiac cells and increased mechanical stress (this thesis).
2. Differentiation associated repair (DAR) is not a hallmark for terminal differentiation (this thesis).
3. Mechanical stress of cardiac cells can be considered as the initiation factor of the hypertrophic response in these cells (this thesis).
4. The stress response of cardiac cells to mechanical stress demonstrates a stress specific gene expression profile when compared to genotoxic stresses induced by DNA damaging agents. Besides the stress response appears to be cell-type specific (this thesis)
5. The preparation of pure cardiac myocyte cultures from neonatal rats is hampered by the presence of non-myocytes, that are capable to proliferate during culturing, thereby causing a decrease in the proportion of myocytes (this thesis).
6. Microarray is een techniek die op dit moment meer informatie oplevert dan een mens kan verwerken
7. It is better to focus on the question how to raise the inhibition of cardiac stem cell quiescence, than on the problem what is the best strategie to administer stem cells (from a different origin) to the heart.

- 8 Myosin may act as a mechanotransducer by inducing a conformational change in Fak that favors Tyr-397 autophosphorylation.  
(Fonseca et al., Circ. Res. 2005; 96:73-81)
9. Zwart ijs doet het schaatshart sneller kloppen.
10. Je kunt de wind niet veranderen maar de stand van de zeilen bepaal je zelf.
11. Tussen ratio en gevoel zit een wereld van verschil.
12. Het verschil tussen promoveren en afstuderen is voor familie en vrienden soms niet helemaal duidelijk.