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Molecular mechanisms of platelet-mediated liver regeneration after partial hepatectomy

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PROPOSITIONS
accompanying the thesis

**Molecular mechanisms of platelet-mediated
liver regeneration after partial hepatectomy**

Marc Kirschbaum
4th of October 2017

1. Platelets will become a prime therapeutic target for diseases unrelated to hemostasis.
2. Functional transfer of platelet RNA rather than release of platelet-derived growth factors drives platelet-mediated liver regeneration. (This thesis)
3. Chapters in biochemistry textbooks on the role of the cell nucleus in protein synthesis require thorough revision.
4. Clinical use of DDAVP in major liver resection should be explored given the key role of VWF release in initiating liver regeneration. (This thesis)
5. Partial hepatectomy exacerbates non-alcoholic fatty liver disease. (This thesis)
6. The conclusion of Starlinger that platelet-derived growth factors drive liver regeneration in humans is not supported by his data. (This thesis, *Hepatology*. 2016;63(5):1675-88, and *Hepatology*. 2014;60(1):257-66)
7. An intermezzo is a “short dramatic, musical, or other entertainment of light character, introduced between the acts of a drama or opera”. According to this definition my thesis is a drama and the chapter about rFVIIa has a light character.
8. To venture off the beaten path is easy, but the challenge then is to continue moving forward. (Personal experience during my PhD training)
9. *Scientia sine artis nihil est.*
Science is nothing without art
10. *Andere Denken Nach – Wir Denken Vor.* (Udo Lindenberg, German musician)
Some people just think – other people think ahead
11. *Jeder ist ein Genie! Aber wenn Du einen Fisch danach beurteilst, ob er auf einen Baum klettern kann, wird er sein ganzes Leben glauben, dass er dumm ist.* (Albert Einstein, German theoretical physicist)
Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is stupid.