

Novel platelet glycoprotein VI and CLEC-2 targeting strategies

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Propositions belonging to the dissertation:

Novel platelet glycoprotein VI and CLEC-2 targeting strategies: studies in humanized mouse models

by Stefano Navarro

- 1. The JAQ1-binding epitope on human and mouse glycoprotein VI (GPVI) has diverged during evolution, resulting in different functions. (*This thesis*)
- 2. In shear-dependent thrombus formation, human platelet thrombin receptors have a more persistent contribution than the collagen receptor GPVI. (*This thesis*)
- 3. In transgenic mice, in vivo immune depletion of the human GPVI receptor by JAQ1 from the platelet surface results in a low GPVI phenotype. (*This thesis*)
- 4. The platelet CLEC-2 receptor has distinct roles in mouse disease models. Functional targeting of this receptor is still a challenge. (*This thesis*)
- 5. Under high shear flow conditions, GPVI acts in concert with GPIbα to tether platelets to the subendothelial matrix. The fast off-rate of these receptor interactions prevents stable platelet adhesion. (*Bernhard Nieswandt, Steve Watson, Blood, 2003*)
- 6. Platelet activation and blood coagulation are complementary, mutually dependent processes in haemostasis and thrombosis. (*Johan Heemskerk et al, Thromb Haemost; 2002*)
- 7. The scaled or complete immune-depletion of GPVI is a promising therapeutic approach for the reduction of arterial thrombotic events. (*Impact, this thesis*)
- 8. Despite technological and medical advances of the last decades, cardiovascular diseases are still leading causes of death globally. Platelet research is fundamental for achieving further disease reduction and better treatment. (*Impact, this thesis*)
- The good thing about science is that it's true whether or not you believe in it. (Neil de Grasse Tyson)
- 10. Science should not judge on ethnicity, religion or gender. Empirical science needs to be objective and not rely on prejudice or believe.
- 11. Ho perso un po' la vista, molto l'udito. Alle conferenze non vedo le proiezioni e non sento bene. Ma penso più adesso di quando avevo vent'anni. Il corpo faccia quello che vuole. Io non sono il corpo: io sono la mente. (Rita levi Montalcini)