Cholesterol metabolism and hematopoiesis interaction in atherothrombosis

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Stellingen behorende bij het proefschrift

Cholesterol metabolism and hematopoiesis interaction in atherothrombosis

1. Elevated plasma unesterified cholesterol levels rather than the absence of SR-BI in bone marrow impairs megakaryopoiesis and platelet production in SR-BI knockout mice. (*this thesis*)

2. Cholesterol efflux transporters ABCA1 and ABCG1 play unexpected and functionally opposing roles in proplatelet formation. (*this thesis*)

3. ApoA1 deficiency stimulates T cell production through long-term changes in bone marrow progenitor cells. (*this thesis*)

4. The natural anticoagulant Protein C plays a significant role in atherothrombosis prevention in mice. (*this thesis*)

5. Combined targeting of plaque stability and blood coagulation will allow for the development of the highly needed murine model for atherothrombosis.

6. Due to the paucity of atherothrombosis in mouse studies, the use of inferential terms such as vulnerability and stability in the context of murine atherosclerotic plaques should be discouraged. (*adapted from: Daugherty et al., Arterioscler Thromb Vasc Biol, 2017*)

7. Understanding the pathophysiology of plaque erosion is an important avenue for the cardiovascular field to pursue. (*adapted from: Libby & Pasterkamp, Eur Heart J, 2015*)

8. Increasing knowledge on HDL composition, function and mechanism of action is a prerequisite before HDL can become of therapeutic value. (*adapted from: Kajani et al., Int J Mol Sci, 2018*)

9. Playing volleyball is considerably easier than performing doctoral research, as in volleyball only one ball needs to be kept in the air.

10. Rock bottom is an excellent foundation on which to build a new life. (*adapted from J.K. Rowling*)

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