Thromboinflammation in high-risk human populations

Yuan, L.

STELLINGEN

behorende bij het proefschrift

THROMBOINFLAMMATION IN HIGH-RISK HUMAN POPULATIONS

1. Microcirculatory differences between men and women identified in our study implied that microvascular health changes might be the earliest detectable clue prior to the general higher procoagulant status in women ultimately developing CHD, which is also independent of increased systemic inflammatory state. *This thesis*
2. Dutch South Asian (DSA) and Dutch white Caucasian (DwC) individuals with T2DM have impaired HDL function in terms of decreased anti-thrombotic capacity, which may be explained by the loss of functional smallest HDL subfractions in DSA and increased triglyceride content in smallest HDL in DwC. *This thesis*
3. Lipidomics phenotyping could provide detailed insights into lipid metabolic complexity and interindividual variations among T2DM patients from various ethnic groups. *This thesis*
4. Endothelial cell dysfunction and loss of endothelial glycocalyx might drive worse outcomes like ARDS or coagulopathy in severe COVID-19 at later disease stage, which could be targeted earlier in disease by the presence of heparan sulfate mimetic. *This thesis*
5. “Both experimental studies for the evaluation of different mechanisms involved in coronary microvascular dysfunction and prospective clinical studies that evaluate the effect of interventions restoring these microvascular abnormalities on patient prognosis are mandatory.” *Pries et al., European Heart Journal, 2015*
6. “While it is becoming evident that not all HDL disturbances are causatively associated with the development and progression of type 2 diabetes, a bidirectional correlation between these two conditions exists, leading to a perpetual self-feeding cycle.” *Xepapadaki et al., Diabetologia, 2021*
7. “Now is the time to harness our understanding of thrombocytopathy and endotheliopathy and directly target and prevent this platelet and endothelial dysfunction.” *Gu et al., Nature Reviews Cardiology, 2021*
8. “Evidence suggests that glycocalyx dysfunction is reversible, suggesting that these mechanisms could be considered as therapeutic targets to prevent the progression of renal and cardiovascular disease.” *Rabelink et al., Nature Reviews Nephrology, 2015*
9. No wings to soar? Then race the ground. If running fails, just walk profound. When walking falters, crawl unbowed. But forward ever, don't be bound. *After Martin Luther King (1929 - 1968)*
10. Knowledge knew no bounds, and nothing remained definitive. *After Xuesen Qian (1911 - 2009)*
11. When passion fuels the spirit and hard work is put into action, the worst outcome of life is merely a delayed blossom - for the beauty of one's true calling can never be dimmed.