Stellingen behorend bij het proefschrift
Propositions belonging to the thesis

1. Kinome profiling provides depictions of the integrated networks that constitute intracellular signaling pathways which reveal existence of canonical and non-canonical signal transduction (this thesis).

2. The LMWPTP is a major player regulating the energetic metabolism and autophagy process in hematological cancer (this thesis).

3. The contribution of tyrosine phosphatase signaling to platelet function is slowly being elucidated and may provide potential targets for anti-clotting treatment (this thesis).

4. Platelets are associated with aging-related diseases, including cancer, and detect processes in the tumor microenvironment and the pre-metastatic window (this thesis).

5. A feedback loop exists between platelets and cancer cells: hyper-activated platelets enhance tumor cell proliferation by LMWPTP expression and cancer cells induce platelet activation (this thesis).

6. Presentation of common diseases changes, e.g. colorectal cancer, is starting to become a disease that is not associated only with old age but is also increasingly observed in young adults, and the origin of this phenomenon remains elusive (Vuik et al, *Gut*, 2019).

7. Despite the progress made through scientific research, our understanding of biochemistry is still insufficient to allow true understanding of both cellular resilience and intercellular interaction (Alberts, 2020).

8. During metastasis, cancers cells leaving their environment and entering the blood flow can be compared to people jumping into Niagara Falls for uncertain gains (Labelle & Hynes, *Cancer Discov*, 2012).

9. Science is not immutable and there will always be new ways to go and new approaches to learn (Richard Feynman).

10. The impact of the Covid-19 pandemic on the delay in diagnosis and treatment of cancer may lead to a second wave of Covid-19-induced casualties in the future (Maringe et al, *The Lancet Oncology*, 2020).

11. Never leave that till tomorrow which you can do today (Benjamin Franklin).