

# Discovering new pathways in thrombus formation

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## ***Discovering new pathways in thrombus formation***

1. Multiparameter assessment of whole-blood thrombus formation can detect additive effects of a low platelet count and of impaired platelet functionality. (*This thesis*)
2. Similarly to the in vivo situation, platelets contribute to arterial thrombus formation in vitro via complex interactions with vessel wall components, plasma factors and other blood cells. (*This thesis*)
3. Platelet secretion is crucial for a local regulation of neutrophil activation; blockage of this interaction opens new possibilities for the treatment of thrombo-inflammation. (*This thesis*)
4. Extended analysis of the effect of various gene deficiencies on thrombus formation and summation in the form of a network can contribute to a more targeted approach to select novel candidate genes and proteins, possibly affecting platelet functions. (*This thesis*)
5. In vitro microfluidics assessment of thrombus formation provides a proxy alternative for in vivo measurement of arterial thrombosis tendency in mice.
6. Platelets are not only the main cellular mediator of thrombosis, but are also acting as immune cells that initiate and accelerate vascular inflammation. (*Morell, Blood 2014*)
7. Including patient samples is crucial for verifying a new method in research on thrombosis and hemostasis.
8. Investigations to platelet function can answer more questions in many aspects of life.
9. Finding a good balance between personal life and work determines the success of a PhD student.
10. Discovery is seeing what everybody else has seen, and thinking what nobody else has thought. (*Albert Szent-Györgyi*)
11. The rare place where success comes before work is in the dictionary. (*after Vince Lombardi*)

*Magdolna Nagy, 7 November 2019*