

# Platelets and platelet extracellular vesicles as messengers in vascular inflammation

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Propositions belonging to the thesis entitled

## **Platelets and Platelet Extracellular Vesicles as Messengers in Vascular Inflammation**

1. Platelet extracellular vesicles (platelet EV) retain many properties of their parent cells but have independent physiologic functions. (this thesis)
2. Platelet EV exert direct pro-inflammatory effects by the transfer of pro-inflammatory mediators. (this thesis)
3. Disrupting the interaction of CCL5 with CXCL4 represents an attractive therapeutic approach for the treatment of acute and chronic inflammation without impairing normal immune function. (this thesis)
4. Deletion of platelet JAM-A accelerates neointima formation only during early stages following vascular injury. (this thesis)
5. Extracellular vesicles are promising therapeutic delivery vehicles. (Lener *et al. J Extracell Vesicles* 2015)
6. Extracellular vesicles are transmitters of a novel complex way of cellular signaling.
7. Tumor educated platelet mRNA profiling enables blood-based cancer diagnostics (Best *et al. Cancer Cell* 2015)
8. All knowledge is vain without the work. And all work is meaningless without love. (Khalil Gibran)
9. Nowadays people know the price of everything and the value of nothing. (Oscar Wilde)
10. To travel is to discover that everyone is wrong about other countries. (Aldous Huxley)

Tanja Vajen, 9<sup>th</sup> November 2017