

Thromboinflammation

Blood coagulation and innate immunity go hand in hand in clinical medicine. Several autoimmune diseases and infectious diseases (inc. COVID-19) are accompanied by thrombosis. Also during sterile inflammation and allergic reactions, tissue swelling takes place that can be seen as a side activity of the blood clotting cascade. Our team researches the interface between cardiovascular disease and inflammatory reactions. We investigate molecular defects in plasma proteins that cause disease, and explore cell biological mechanisms that are involved in thrombosis. We design therapeutic proteins for treatment of stroke and microvascular thrombosis, as well as companion diagnostic approaches.

Publications on [NCBI](#)

UMC spin-out: [TargED Biopharmaceuticals](#)

Projects:

- *Next-generation clot-busting therapies for acute cardiovascular events.*
- *Sleeping enzymes. How conformational change drives enzyme activation.*

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