

The importance of neutrophil-derived enzymes for the processing of auto-antigens and inflammatory mediators

Initiative: Trilaterale Partnerschaften – Kooperationsvorhaben zwischen Wissenschaftler(inne)n aus der Ukraine, Russland und Deutschland

Bewilligung: 05.12.2019

Laufzeit: 3 Jahre

The current project is aimed to clarify the role of NET-borne enzymes and proteins such as proteases, glycosidases and proteasomal subunits on the anti-inflammatory properties of NETs and their role in antigen presentation. The project partners will study in detail the presence and composition of functionally active proteasomes in neutrophils and associated with NETs. How other enzymes associated with NETs, such as PADI4, proteases and glycosidases are contributing to the anti-inflammatory properties of NETs will also be part of the current research project. Lastly, the consortium wants to better understand the impact of blocking Cat-S on PAR2 activation and as possible treatment options for MHC-driven allo-/autoimmunity and peripheral vascular organ damage.

Projektbeteiligte

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