



PHARMACOLOGY *education initiative*

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Pharmacological modulation of platelet–neutrophil crosstalk in autoimmune microvascular inflammation

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Wednesday, 14 October 2026 – 11:00 AM UTC +0

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Abstract

Microvascular inflammation in systemic autoimmune diseases arises from interactions between immune cells, platelets and the vascular wall. Beyond haemostasis, platelets actively regulate innate immunity, and platelet–neutrophil crosstalk can drive neutrophil activation, NET formation and immunothrombosis, sustaining vascular inflammation and tissue damage.

This webinar will examine these mechanisms, focusing on platelet-derived extracellular vesicles and HMGB1-dependent signalling. Experimental and translational evidence will illustrate their contribution to microvascular and tissue inflammation. Finally, we will discuss how pharmacological modulation of platelet–neutrophil interactions could disrupt pathogenic thromboinflammatory circuits and help limit vascular inflammation in autoimmune disease.



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