

Special Issue

Molecular Roles of Neutrophil Extracellular Traps in Immune Responses and Disease

Message from the Guest Editor

This Special Issue will explore the multiple roles of neutrophil extracellular traps (NETs) in health and disease, focusing on their molecular mechanisms and immunological consequences. NETs correspond to extracellular structures generated by a neutrophil-exclusive form of cell death known as NETosis, resulting in the secretion of genomic material and proteins with an anti-pathogen function. NETs are produced in response to inflammatory stimuli, including PAMPs and DAMPs, and have emerged as critical players in host defense, inflammation, autoimmunity, thrombosis, and cancer. We invite original research articles and reviews that explore the signaling pathways driving NETosis, identify molecular components of NETs with functional significance, and investigate their interactions with other cell types. Contributions addressing novel therapeutic strategies targeting NETs or their downstream effects are also welcome. This Special Issue aims to advance our understanding of NETs in immunity and pathology by integrating immunology, molecular biology, and clinical research insights.

Guest Editor

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Message from the Editor-in-Chief

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