

Special Issue

Current Progress in Neutrophil Extracellular Traps (NETs)

Message from the Guest Editor

Neutrophil extracellular traps (NETs) are increasingly seen as key regulators of immune function, possessing a dual role. While they support innate immunity by trapping pathogens, their excessive formation and impaired clearance can drive chronic inflammation and tissue damage. NETs are linked to autoimmune diseases such as systemic lupus erythematosus, rheumatoid arthritis, and psoriasis, often involving autoantibodies against NET components (e.g., dsDNA, histones) and the enzyme peptidylarginine deiminase (PAD4). PAD4 and PAD2 have also been identified as autoantigens. A novel area of research highlights NET-like structures—Cellular Extrachromatin Cancer Networks (CECNs)—which depend on PAD4 and contribute to tumor heterogeneity, therapy resistance, and metastasis. We welcome submissions on

- Reviews on NET biology;
- Clinical and translational research;
- Studies on PAD2/PAD4 as autoantigens;
- NETs in cancer and CECNs;
- Detection methods for NETs;
- Targeted therapies involving NET modulation.

Guest Editor

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