Special Issue

Macrophage Interplay with Pore-Forming Toxins

Message from the Guest Editor

Many pathogens secrete pore-forming toxins (PFTs), which macrophages must detect, then defend against them and respond to them. Similarly, macrophages also detect and respond to innate immune PFTs deployed against bacteria, and target cells, including perforin and the membrane, attack the complex of complement. Finally, macrophages themselves utilize PFTs like gasdermin D and mixed-lineage kinase-like (mlkl) to execute the cell death pathways of pyroptosis and necroptosis, respectively, to deny intracellular pathogens refuge. Interplay between macrophages and toxins occurs at many steps and leaves many unknowns in the field. This Special Issue will focus on the interplay between macrophages and related myeloid cells with pore-forming toxins, including both the use of pore-forming toxins by these cells, and the response of these cells to toxins. This includes the biology behind cell death processes that require pore-forming toxins, macrophage responses to external toxins deployed against other bacteria and cells, and inflammation, immunosuppression, signaling, and other responses to pore-forming toxins.

Guest Editor

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Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

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