



## Role for the Enzyme Myeloperoxidase to Elicit Pathologies

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### Message from the Guest Editors

The neutrophil-derived heme enzyme myeloperoxidase is an efficient peroxidase that is considered to form part of responses to injury and infection in the acute to early phases. This leukocyte enzyme produces a range of potent oxidants in the presence of both hydrogen peroxide and biological halides or thiocyanate. Myeloperoxidase is gaining increased attention as an important oxidative mediator of range of pathologies, including inflammatory damage to the brain, reperfusion injury to a range of organs, vascular dysfunction, adverse ventricular remodeling, and atrial fibrillation. Thus, interest in this enzyme, its role in host damage, and the resolution of the inflammatory response has increased. Accordingly, the development of potential therapies to limit both neutrophil and myeloperoxidase activity in tissue pathology has gained significant traction in the recent literature. This Special Issue will highlight the role for myeloperoxidase in disease progression, identify important biomarkers to monitor host tissue damage elicited by this peroxidase, and expand on novel strategies to limit enzyme activity and its relationship to disease.





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## Message from the Editor-in-Chief

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