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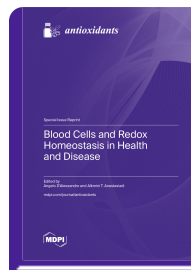
*Special Issue Reprint*

## Blood Cells and Redox Homeostasis in Health and Disease

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ISBN 978-3-7258-3629-1 (Hardback)  
ISBN 978-3-7258-3630-7 (PDF)



This reprint explores the complex balance between oxidative stress and redox homeostasis in blood cells, shedding light on their impact on cellular function, systemic health, and disease states. Blood cells continuously navigate a dynamic redox environment, from their formation in the bone marrow to their lifespan in circulation, where oxidative challenges shape their function, integrity, and interactions with other cell types. The studies featured in this reprint highlight the role of antioxidant defense mechanisms, metabolic adaptations, and novel therapeutic approaches in mitigating oxidative damage. By integrating the findings of diverse conditions, ranging from hematological disorders to systemic diseases, this reprint offers a comprehensive perspective on the dynamic interplay between redox biology and blood cell function.



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