



Sickle Cell Disease: From Pathogenesis to Therapies

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Message from the Guest Editors

A renaissance in the development of new therapies for sickle cell disease (SCD) is emerging. Many of these therapies have emanated from novel approaches to our understanding of sickle red blood cell biology and new insights into the genesis of sickle cell vaso-occlusive events. A growing number of clinical trials are developing new targets outside the sickle red blood cell with the hopes of mitigating the devastating cascade of physiologic events resulting in end-organ damage. Various new pathophysiologic mechanisms are being recognized, improving our understanding of sickle cell vasculopathy. They include increased inflammation, vascular adhesion, coagulopathy, and nitric oxide dysfunction. Novel and improved therapies remain to be discovered.

For this Special Issue, we invite papers on the following topics:

- 1) Role of the endothelium and adhesion in the vasculopathy of sickle cell disease: Implications for disease monitoring and novel therapeutics;
- 2) Impaired Nitric oxide function and implications for novel therapeutics;
- 3) Role of coagulopathy and platelet activation in the pathogenesis of SCD vasculopathy: Implications for disease monitoring and novel therapeutics.





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Message from the Editor-in-Chief

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