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# Sickle Cell Disease: Pathogenesis, Diagnosis and Treatment

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Deadline for manuscript submissions:

closed (10 July 2025)

### **Message from the Guest Editors**

We are in an exciting era for sickle cell disease, with new drugs and gene therapies in the pipeline. With these opportunities come new questions: how do we select the best drug therapy and compare the efficacy of different gene therapy strategies? Along with these questions, there remains the question of if gene therapy is curative and even how to define a cure.

There are new devices, molecular tests, and sequencing strategies to help us answer these questions. In this Special Issue, we aim to describe the state of the science and review current applications for these new technologies. Articles describing ways to vet the safety and efficacy of gene therapy for SCD are welcome, as are articles describing omics studies or omics-based strategies that identify novel therapeutic pathways or elucidate sickle cell disease pathophysiology. Our major focus is on experimental cytology. We are also pleased to invite you to submit articles addressing new ways to assess red cell health and strategies that use existing or emerging biomarkers to identify acute complications or best second-line agents.













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### **Editors-in-Chief**

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