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Metabolism of Hematopoietic Stem Cells during Development and Aging

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Message from the Guest Editor

Metabolic changes impede cellular differentiation and long-term destiny, and they play a crucial role in aging and cancer transformation. The focus of this Special Issue is on the metabolic control of self-renewal and differentiation and how dysregulation, aging, and malignant transformation may occur from disturbed metabolisms. This Special Issue will also include the following: how metabolites impact developmental decisions in hematopoietic stem cells; how mitochondrial and lysosomal function influence stem cell aging, metabolite epigenetic functions, and metabolite signaling roles across stem cells; and the effect of metabolic therapies in aging and diseases. The goal of this Special Issue is to increase collaboration across a variety of fields and, ultimately, to examine how metabolic pathway treatments might influence the aging process.



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Special Issue



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