

Special Issue

Molecular Biology of Sulfatase

Message from the Guest Editor

The impact of sulfation on biological processes has been of interest for decades, particularly with regard to the inherited deficiency of sulfatases in the mucopolysaccharidoses; these include MPS VI (Maroteaux-Lamy Syndrome), in which there is a deficiency of N-acetylgalactosamine-4-sulfatase, and MPS IVA, in which there is a deficiency of N-acetylgalactosamine-6-sulfatase (Morquio Syndrome). Recently, attention has been directed to the molecular consequences of an acquired decline in sulfatase activity due to changes in the cellular microenvironment. In this collection of articles, the range of effects of sulfation and of sulfatase and sulfotransferase activity on pathobiology will be examined. This increased focus on the role of sulfation in signalling and the regulation of vital cell functions, including proliferation, differentiation, and transcription, may provide novel insights into basic metabolic and molecular pathways and offer new targets able to improve human health.

Guest Editor

Dr. Joanne Tobacman

Jesse Brown VA Medical Center, University of Illinois at Chicago,
Chicago, IL 60612, USA

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4052 Basel, Switzerland
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Prof. Dr. José L. Quiles
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