



Roles of Sulfatases and Sulfotransferases in Fundamental Biological Processes

Guest Editor:

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Deadline for manuscript
submissions:
closed (30 June 2022)

Message from the Guest Editor

Identification of the roles of sulfatases, sulfotransferase enzymes, and sulfated glycosaminoglycans (GAGs) in signaling, transcription, and cell differentiation has focused on the mechanisms of action in well-defined biological systems. Together, sulfatases, sulfotransferases, and sulfated GAGs confer remarkable specificity in the regulation of vital processes in plants, microbiota, and macrobiota. The specific, chemically precise recognition signals attributable to localized sulfates can influence vital cell processes in immunity and host cell responses to infection, as well as in activation/inactivation of steroid hormones, coagulation, drug metabolism, and cell signaling. The articles in this issue on this topic will reveal the range of effects of sulfation, outline what is known about the underlying molecular and biochemical pathways, and suggest avenues for future investigations.

Keywords:

- Sulfatase
- Sulfotransferase
- Heparin
- Chondroitin Sulfate
- Sulfated Glycosaminoglycans (GAGs)
- Sulfation





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Message from the Editor-in-Chief

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