

Special Issue

Heparin, Heparan Sulfate and Heparanase in Health and Disease

Message from the Guest Editor

Heparin has been used in many different types of medical and therapeutic applications, including prevention of recent COVID-19 infection-associated symptoms. The anticoagulant action of heparin has been described best. In addition, heparin and a related carbohydrate heparan sulfate can interact and potentially regulate hundreds of functional proteins, including growth factors, cytokines/chemokines, enzymes, danger-associated molecular patterns, extracellular matrix proteins, cell surface proteins, viral proteins etc., as non-anticoagulant actions.

Heparanase, an endoglycosidase of heparin/heparan sulfate, cleaves the carbohydrates and thereby influences a vast field of biological events, such as cancer malignancy, angiogenesis, inflammation, fibrosis, viral infection, etc.

To combine the subjects together, the Special Issue focuses on underlying molecular mechanisms that explain molecular, biological, pathological, and therapeutic actions of heparin, heparan sulfate, and heparanase, also focusing on the development of heparanase inhibitors as well as other analytical tools to investigate carbohydrates. Original research and review papers are welcomed.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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