Chemistry and Biology of Heparin and Heparan Sulfate

Description: The chemistry, biochemistry and pharmacology of heparin and heparan sulfate have been and continue to be a major scientific undertaking - heparin and its derivative remain important drugs in clinical practice. Chemistry and Biology of Heparin and Heparan Sulfate provides readers with an insight into the chemistry, biology and clinical applications of heparin and heparan sulfate and examines their function in various physiological and pathological conditions. Providing a wealth of useful information, no other tome covers the diversity of topics in the field. Students, doctors, chemists, biochemists, and research scientists will find this book an invaluable source for updating their current knowledge of developments in this area.

- Comprehensively reviews all aspects of heparin and heparan sulfate research- Uniquely describes the chemistry, biology and clinical application of heparins and heparan sulfates in one work- Provides an invaluable source of knowledge of current developments for chemists, biochemists, medical doctors, researchers, students and practitioners

Contents:

1. Structure and Active Domains of Heparin.
5. Biochemical and Pharmacological Rationale for Synthetic Heparin Polysaccharides.
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12. Surface-Based Studies of Heparin/Heparan Sulfate-Protein Interactions: Considerations for Surface Immobilisation of HS/Heparin Saccharides and Monitoring their Interactions with Binding Proteins.
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16. Glycol-Splitting as a Device for Modulating Inhibition of Growth Factors and Heparanase by Heparin and Heparin Derivatives.
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20. Heparin and Low Molecular Weight Heparin in Thrombosis and Inflammation: Emerging Link.


23. Heparin and Low Molecular Weight Heparins in Clinical Cardiology.

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25. Role of Heparan Sulfate in Cancer.

26. Use of Heparin Preparations in Older Patients.

27. Advances in Low Molecular Weight Heparin Use in Pregnancy.

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