

Galectins

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Abstrak

The comprehensive guide to the current understanding of galectins and their promising potential in drug design This is the first book focusing on galectins. It was inspired by topics discussed at the symposium "Galectins: Structures, Functions, and Therapeutic Targets" that was a part of the 234th American Chemical Society meeting in 2007. To help chemists, biochemists, and others understand the challenges inherent in the study of galectins and build on recent advances in the field, the editors have compiled articles from leading experts on galectins and their biomedical applications. Galectins includes: An overview of early galectin research An explanation of the nature of galectins A discussion of the structure and functions of galectins, their ligand specificity and molecular mechanisms of action, and the localization of galectins in the cell An exploration of the roles galectins play in tumor growth and cancer, fibrosis, inflammation, and immunity A discussion of the effect of galectins on cell migration, angiogenesis, and chemoresistance An introduction to new approaches to designing galectin inhibitors.