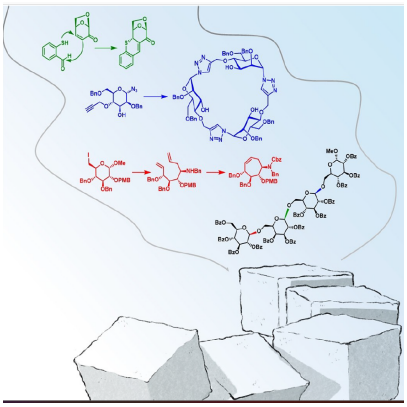
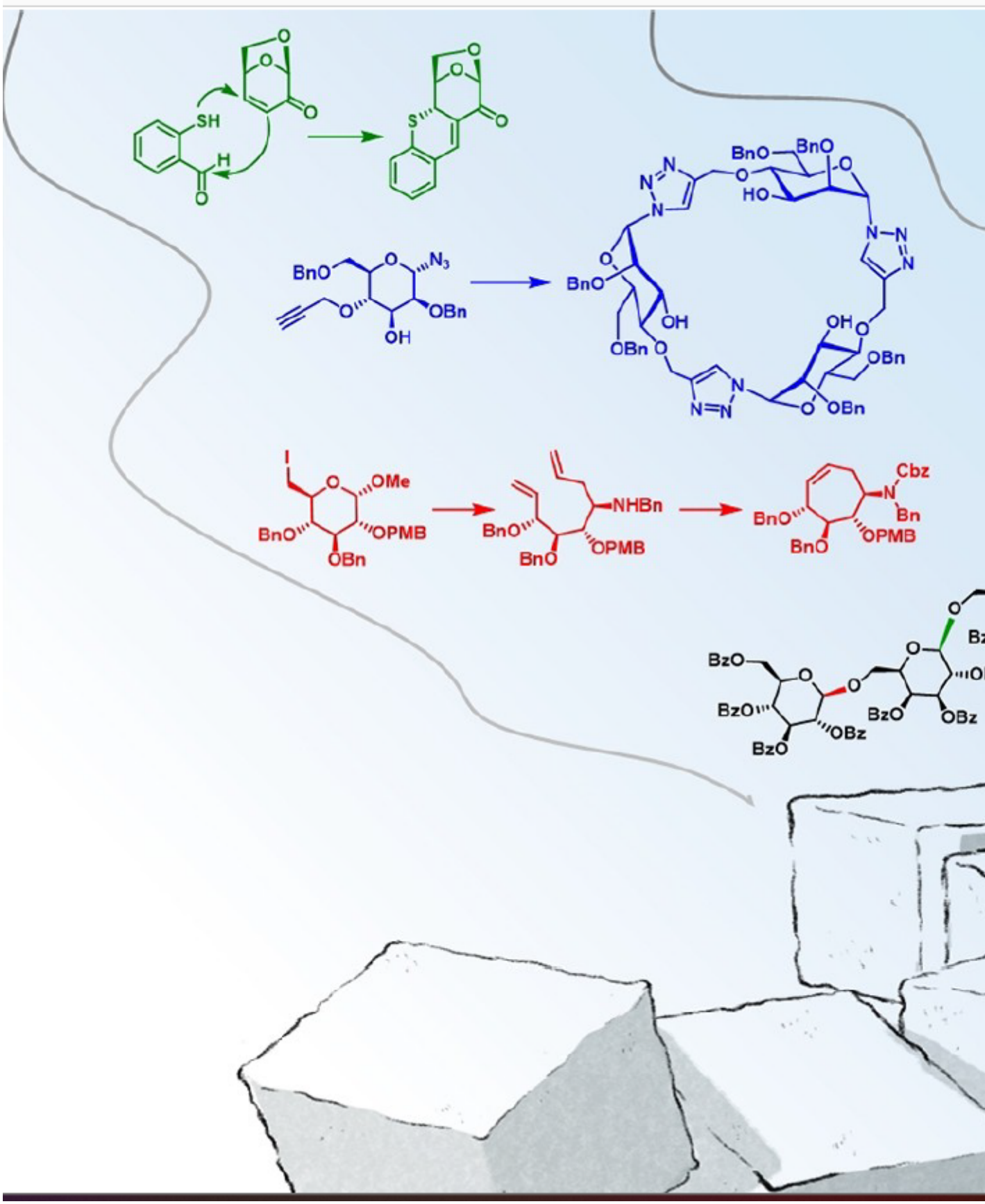


Unleashing the Power of Domino Reactions on Carbohydrates: State of the Art

Description

The intricate nature of carbohydrate structures has led the scientific community to seek efficient protocols for their manipulation. The lengthy synthetic pathways often required to achieve complex sugar structures pose challenges not only in terms of time and cost but also in terms of environmental sustainability. Consequently, domino transformations serve as valuable tools for streamlining drug discovery processes. Sequential procedures with fewer steps and minimal isolation/purification steps are particularly appealing to organic chemists in carbohydrate chemistry.



The review highlights several examples of domino transformations applied to carbohydrates. It aims to

summarize their chemical potential in providing sugar-based compounds with significant applications in generating new chemical scaffolds for drug discovery and chemical biology

Category

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