

Maiti, K.; Samanta, G. K.; Daskhan, G. C.; Jayaraman, N., 2017, "Chemical and enzymatic approaches to the synthesis of cyclic oligosaccharides", *Carbohydr. Chem.*, 42, 165–209.

The review article pertains to covering the developments on synthesis of cyclic oligosaccharides, the challenges by which it is now well-established that synthesis of cyclic oligosaccharides is no longer a speciality regime. Methods and methodologies have evolved over a period of time, by which the field has roots now that are much stronger than ever before. Chemical and enzymatic syntheses of cyclic oligosaccharides are still rather a daunting task, as a result of multitude of problems imposed by sugars in general. Whereas exquisite developments are seen in biochemical routes to synthesize natural and un-natural cyclic oligosaccharides, it is the chemical synthesis that has led to larger varieties in cyclic oligosaccharides, in a made-to-order fashion. Your kind invitation has given us a great opportunity to compile the advancements in the last over a decade on this very important area of glycoscience, facilitating a number of fields to be benefitted through these sugar varieties. This review article compiles logical advancements in cyclic oligosaccharide synthesis, particularly during last over one decade, with emphasis on modifications of glycosidic bonds or individual sugar moieties. Covering chemical and enzymatic routes equally, we anticipate that this article will attract the interest of researchers in not only sugar chemistry, but also the larger interfacial areas of science and technology.