

“Ring expansion methodologies of pyranosides to septanosides and structures of septanosides”, Dey, S.; Ganesh, N. V.; Jayaraman, N. In ‘Domino and Intramolecular Rearrangement Reactions as Advanced Synthetic Methods in Glycoscience’, Eds.: Witczak, Z. J.; Bielski, R. John-Wiley & Sons, 2016, pp 256 – 278.

This chapter pertains to discussion on the specific area of un-natural, seven-membered cyclic septanoses and septanosides. Interest in this class of sugars arises from the desire to implement new synthetic methodologies for their preparation. Whereas cyclizations of linear precursors are nominal routes, ring expansion reactions turn out to be facile to prepare septanosides of differing configurations, especially that of pyranosides to septanosides.