Mukherjee, A.; Jayaraman, N. 2011, "Altered reactivities of thio-hex-2-enopyranosides. A *C*-1 glycosylation *vs* rearrangement in triflic acid mediated activations" *Carbohydr. Res*. *346*, 1569 – 1575.

This Article pertains to a study of the reactivity switching behavior of 2,3-unsaturated thioglycosides. 2,3-Unsaturated thioglycosides present two functionalities, namely, the thioglycoside moiety and the allylic moiety. This work explores differential activation methods that allow selective activation of one or the other moiety. Thus, thioglycoside moiety could be activated selectively in the presence of an iodonium source and acid catalyst, namely, triflic acid. On the other hand, allylic bond could be activated selectively with triflic acid alone. The central dogma about an allylic carbocation, or more particularly dihydropyrylium ion in the present study, is studied in sugar substrates in this work. The study opens up facile activation methods for selective activation of allyl thioglycosides.