

# Harnessing the Potential of Alkynes and Propargylic alcohols

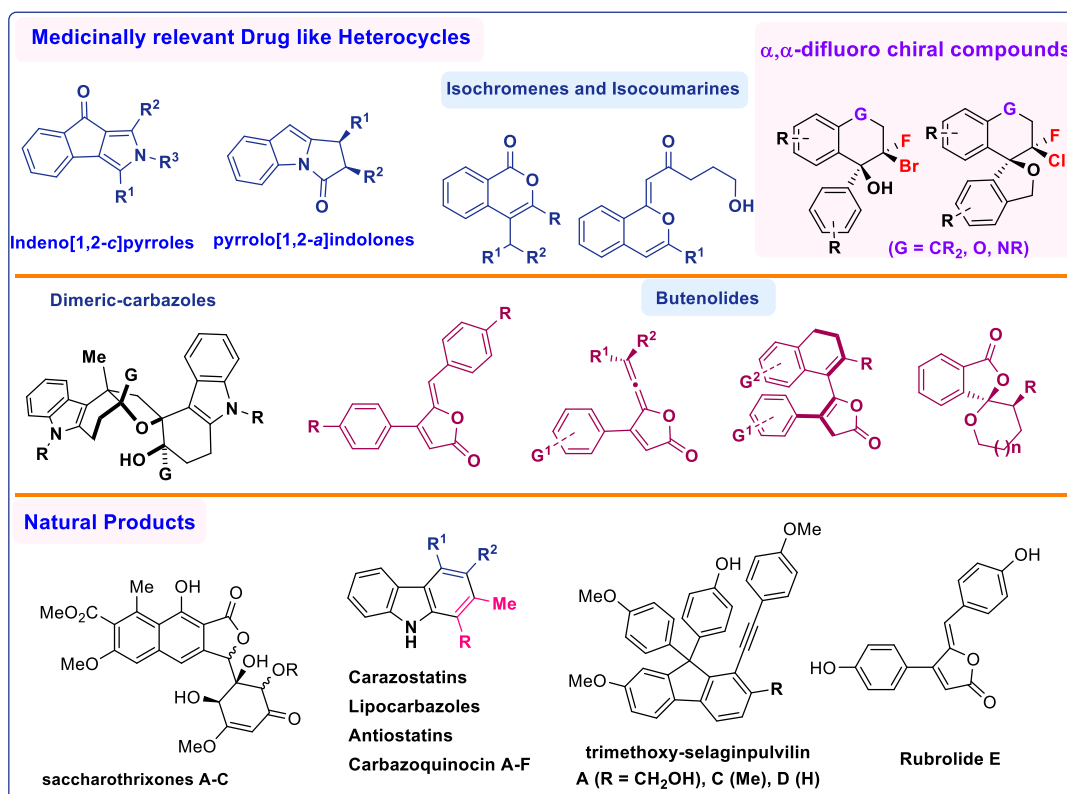
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## Abstract:

Propargylic alcohols which indicate the association of an alkyne and a hydroxyl group in a 1,2-relation, have attracted immense attention as unique building blocks in organic synthesis. Our research group is actively engaged in exploring the novel reactivity of propargylic alcohols and derivatives. Our main motivation is for the discovery and development of new reactions, and their application to the total synthesis of bioactive natural products, drugs, and drug like heterocycles. Some of the representative frameworks, which we have already synthesized in our laboratory are depicted here. We have several academic and industrial collaborations to take these derivatives further in the medicinal chemistry and material chemistry. The overview of our research activities at IIT Madras will be discussed during the lecture.



**Scheme:** Overview of our research activities at IIT Madras

## References:

- 1) (a) Tharra, P.; Baire, B. *Org. Lett.*, **2018**, *20*, 1118-1121. (b) Roy, D.; Tharra, P.; Baire, B. *Chem. Commun.*, **2022**, *95*, 10210-10213; (c) Roy, D.; Baire, B. *Angew. Chem. Int. Edn.*, **2023**, e202304557, <https://doi.org/10.1002/anie.202304557>.