Access to unnatural glycosides by metal-catalyzed functionalisation of glycal substrates

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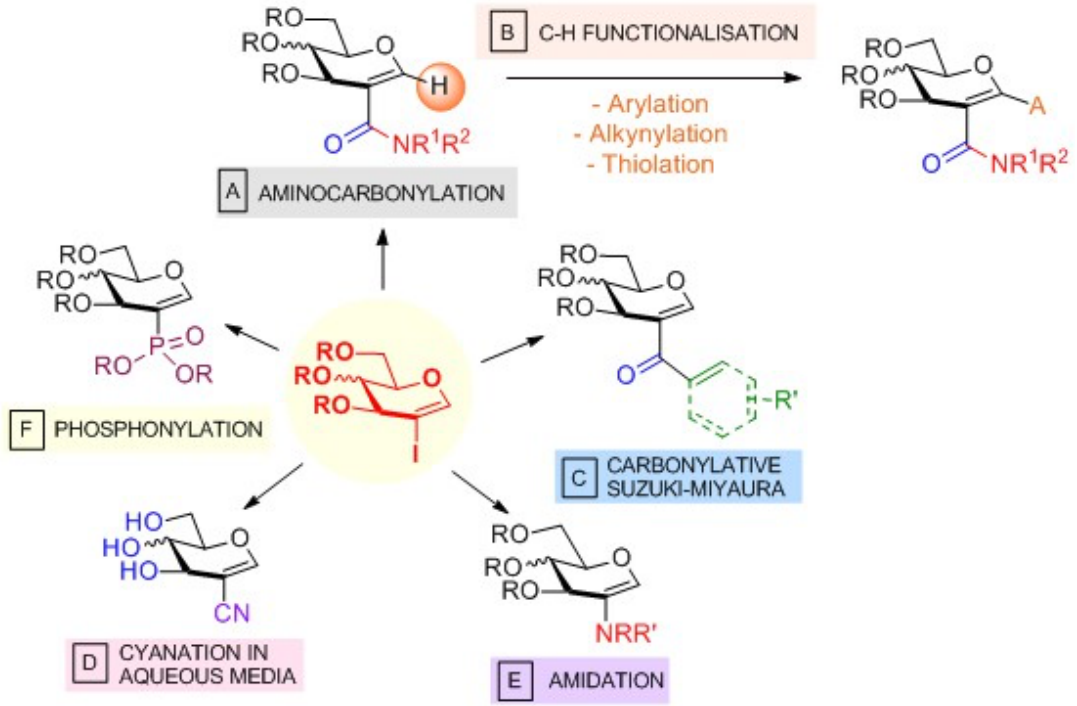
Development of new access to glycoconjugates has become of great interest in synthetic chemistry. In particular, glycoconjugates possessing an unnatural bond are largely studied due to their enzymatic and chemical stabilities towards natural links.

Our expertise deals with the metal-catalyzed functionalisation of glycal substrates using two different reactivities:

- Cross-coupling reactions on 2-iodoglycal starting compounds for the formation of C-C, C-N or C-P bonds: (A), (C), (D), (E) and (F).
- Directed C-H functionalisation reactions of the pseudo-anomeric position of C2-amidoglycals (B).



Developed metal-catalyzed functionalisation of glycals

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