

Seminario de Química Orgánica

Miércoles 15 de mayo de 2019, 13 hs

Aula de Seminario - Departamento de Química Orgánica

"The Influence of Protecting Groups in Glycosyl Iodide Glycosylations"

Dra. Jacquelyn Gervay Hague

Profesora del Departamento de Química de la Universidad de California Davis, Estados Unidos de América

"Research in the Gervay-Hague lab is focused on creating experimental methods for the efficient synthesis of biomarkers that can be used to track the chemical ecology of glycoconjugates. One-pot synthetic routes for large quantity production of alpha-galactosyl ceramides, phytosteryl glycosides and glycerol containing glycolipds using glycosyl iodide chemistry have been established. This synthetic chemistry platform exploits the unique reactivity of glycosyl iodides providing highly efficient routes to functionalized biomarkers that can be pulled down from natural systems through chemical transformations. Methodologies for streamlining processes to minimize protecting group transformations and to increase yields through one-step processes have been invented. These advancements provide a reliable platform for making compounds that can serve as biomarkers in the discovery of chemical exchange occurring between the kingdoms of life including plant and microbes".