

Advancing Chemical Biology through Innovative Synthesis

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Chemical biology has broad impact on many drug discovery programs. For example, chemical biology tools and techniques can be used to understand target engagement, selectivity/off-target profiles and binding sites of lead matter, which can be critical to the progression of a project. This presentation will focus on the development of new and innovative chemistry, offering improved methods to access and use chemical probes in a variety of applications. A series of vignettes will be presented on the catalytic activation of bioorthogonal chemistry with light (CABL), development of chemistry to prepare sulfur (VI) fluorides and their use as electrophilic probes and the evaluation of a new photoaffinity probe with improved labeling efficiency.