“Viral Muses for Chemistry”

Abstract: Our work with dengue virus (DENV) has led to the (re)discovery of a class of diazonium-releasing compounds called triazabutadienes. The reactivity of this pH sensitive protecting group is inspired by the pH sensitive nature of dengue virus and the chemistry centers around the goal of capturing host-pathogen interactions for downstream identification. A large component of the program thus far has been focused on understanding the fundamental reactivity in increasingly complex environments.