

PROteolysis Targeting Chimera Incorporation of “Click” Chemistry

by

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12 - 12:50 P.M. | Via Zoom ([Click here](#))

Abstract

PROteolysis Targeting Chimeras (PROTACs) are bifunctional molecules which modulate protein levels by hijacking the ubiquitin-proteasome system to induce the degradation of the target protein. Limited cell permeability due to the high molecular weight of the PROTACs has led to the development of in-cell click-formed proteolysis targeting chimeras (CLIPTACs). CLIPTACs function through the use of "Click" chemistry; which are a group of easy, practical, reliable, and high yielding reactions. Proof of concept was demonstrated by Heightman in 2016 with the methodology being further explored by Wurz in 2018. In this seminar, I will discuss how CLIPTACs work, their pros and cons, and if the CLIPTAC method did indeed improve on the PROTAC design.