

Christoph Nitsche博士講演会

Time to Shine for Constrained Peptides in Chemical Biology

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大会議室(2階)

Abstract: In my lab, we focus on the biocompatible modification of peptides and proteins, which opens up exciting applications in chemical biology. Late-stage modification of peptides can constrain their structure, thereby enhancing metabolic stability, cell permeability, and biological activity. By integrating these modifications with display techniques, such as mRNA or phage displays, we can directly modify large peptide libraries and subsequently identify peptides that specifically target proteins of interest. We employ these strategies to identify new lead compounds against infectious diseases, including antimicrobial peptides and peptides targeting proteases of RNA viruses. In this seminar, I will highlight our recent progress in these areas.

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