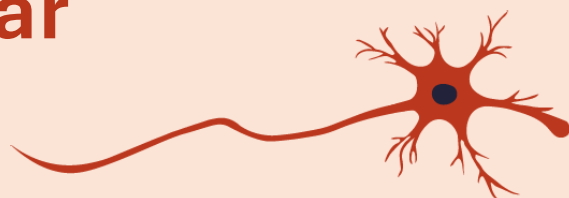


Seminar

iBrain

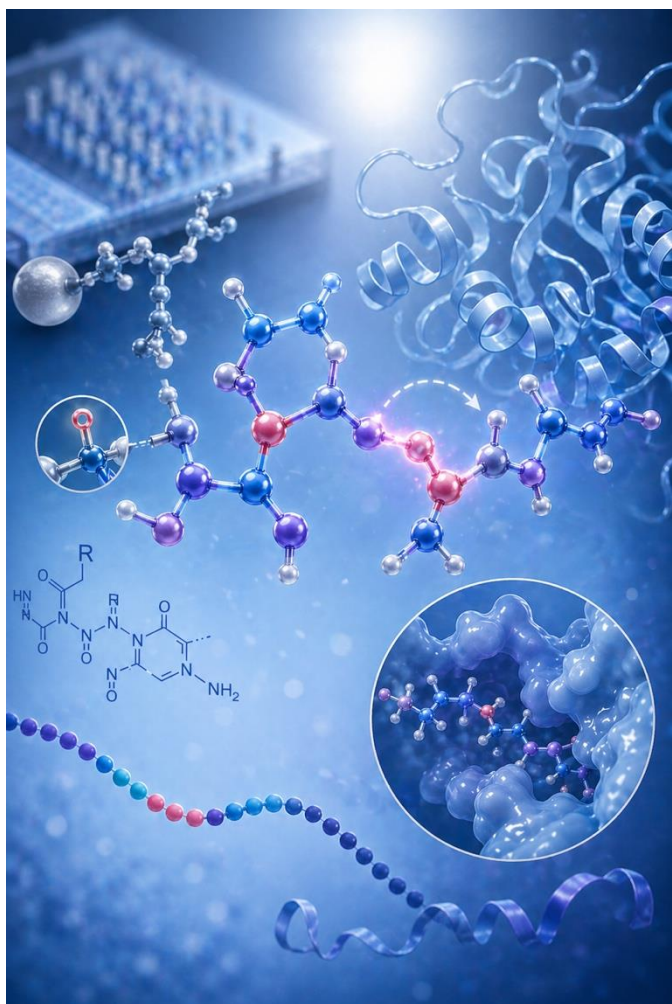


Tuesday, May 26th

11:00-12:30

Bretonneau building – 2nd floor - ROOM 2.4

Advancing the Chemical Synthesis of Biologically Active Peptides and Peptidomimetics



Skander A. Abboud, PhD

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Access to well-defined peptides and proteins remains a central challenge in chemical biology, particularly for systems that are difficult to express or modify using biological methods. Chemical synthesis provides a powerful alternative, enabling precise control over sequence, structure, and functionality.

This research develops synthetic strategies to expand the scope and efficiency of peptide and protein construction, including advances in solid-phase methods and chemoselective ligation approaches. Building on these foundations, modified peptide scaffolds are designed to control multivalency, conformation, and biological activity through chemical modification and molecular design.

These approaches enable the generation of peptide and peptidomimetic systems with enhanced stability, tunable interactions, and improved functional performance, with applications ranging from antimicrobial activity to targeted molecular recognition.

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