

Course for Ph.D. students 40th cycle (Nov 2024 – Oct 2027)

Bioactive peptides and peptidomimetics

(1 ECTS)

Prof. Prof. Lucia Battistini

University of Parma

Course language: English

Approximative scheduling: May 2025 – October 2025

The exact date and time will be announced by e-mail and on the website in the page "Active courses" for each session.

To attend the course please contact:

Prof. Lucia Battistini (lucia.battistini@unipr.it)

Course description

Examples selected from the recent literature will be presented, where small-molecule peptidomimetics or pseudopeptides were developed with the aim to target (and interfere) with specific interactions between natural ligands and their receptors involved in the progression of pathologies including cancer, inflammatory, and fibrotic diseases.

The design, synthesis and characterization of these peptidomimetic scaffolds, their use as inhibitors *per se* or as drug-delivery tools will be discussed.

The covalent conjugation techniques to link these scaffolds to bioactive payloads be they therapeutics or imaging-active probes, and the assembly of noncovalent nanoparticles thereof will be also described.