

# Course for Ph.D. students

## 39<sup>th</sup> cycle (Nov 2023 – Oct 2026)

### Bioactive peptides and peptidomimetics

(1 ECTS)

**Prof. Lucia Battistini**

*University of Parma*

*Course language:* English

*Approximative scheduling:* November 2024 – 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:*

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### 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.