Course for Ph.D. students
XLI Cycle (1 Nov 2025 – 31 Oct 2028)

Curriculum
INNOVAZIONE NEL CAMPO DELLE SCIENZE FARMACEUTICHE

Title
Bioactive peptides and peptidomimetics
(1 ECTS)

Prof. Lucia Battistini
UNIVERSITY OF PARMA

Course language: **Italian**
(English available on request)

Wednesday, 14 October 2026 (14.30-17.30 Aula F)
Thursday, 22 October 2026 (14.30-17.30 Aula F)

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 also be described.

Evaluation: a written test including multiple-choice questions on the contents of the course will be proposed.