



Course unit English denomination	Nucleic Acids: structures and emerging therapeutic applications
SSD	CHEM-07/A
Teacher in charge (if defined)	SISSI Claudia (12h), DALLA VIA Lisa (12h)
Teaching Hours	24
Number of ECTS credits allocated	3
Course period	06-07/2026
Course delivery method	<input type="checkbox"/> In presence <input checked="" type="checkbox"/> Remotely <input type="checkbox"/> Blended
Language of instruction	English
Mandatory attendance	<input checked="" type="checkbox"/> Yes (90 % minimum of presence) <input type="checkbox"/> No
Course unit contents	The nucleic acid world has been deeply revisited in the last years. Starting from the crystal structure solved by Watson and Crick this course will provide an overview of the variegate architecture that these fascinating molecules can assume. This journey will be then related to the huge potential it contains. Thus, the correlations between nucleic acid structures and biological functions as well as the application of nucleic acid as novel drugs and their potential in the field of medicinal chemistry will be discussed.
Learning goals	Knowledge: nucleic acids structures and complexes; nucleic acid-based drugs Skills: biophysical characterization, therapeutical applications Competencies: chemistry and medicinal chemistry
Teaching methods	Frontal teaching
Course on transversal, interdisciplinary, transdisciplinary skills	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Available for PhD students from other courses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Students external to the PhD Course admitted upon evaluation of the CV by the teachers
Prerequisites (not mandatory)	max 3750 caratteri



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Examination
methods

Oral presentation and debate

Suggested readings

Slides/articles provided by the teacher

Additional
information
(not mandatory)

max 3750 caratteri
