



MEDICINAL CHEMISTRY 3	
Enrollment year	2021/2022
Academic year	2022/2023
Regulations	DM270
Academic discipline	CHIM/08 (PHARMACEUTICAL CHEMISTRY)
Department	DEPARTMENT OF MOLECULAR MEDICINE
Course	MEDICAL AND PHARMACEUTICAL TECHNOLOGIES
Curriculum	Farmaceutico: Biotecnologie farmaceutiche per la ricerca e sviluppo
Year of study	2°
Period	2nd semester (06/03/2023 - 09/06/2023)
ECTS	3
Lesson hours	24 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	LINCIANO PASQUALE (titolare) - 3 ECTS
Prerequisites	Basic knowledge of organic chemistry, pharmacology and Medicinal Chemistry is required.
Learning outcomes	To provide advanced knowledge on the methodologies and approaches to design and optimize compounds for identifying drug candidates.
Course contents	<p>The course offers insights on specific topics that play a key role in the drug discovery process.</p> <p>Drug screening techniques for the drug discovery. Preparation of drug libraries (parallel and combinatorial synthesis, microwave-assisted organic synthesis, flow chemistry).</p> <p>Several scientific articles will be discussed particularly focussing on communication using a correct scientific terminology.</p>
Teaching methods	Teaching methods used in the course include lectures, problem-based learning groups, independent study. Discussion of the lecture topics

	during class is encouraged.
<b>Reccomended or required readings</b>	<p>The Practice of Medicinal Chemistry 4th Edition, Camille Wermuth David Aldous Pierre Raboisson Didier Rognan, ISBN: 9780124172050</p> <p>Green Techniques for Organic Synthesis and Medicinal Chemistry, 2nd Edition, Wei Zhang (Editor), Berkeley W. Cue (Editor), Wiley, 2018, ISBN: 978-1-119-28816-9</p> <p>Microwave Heating: Electromagnetic Fields Causing Thermal and Non-Thermal Effects, Edited by Gennadiy I. Churyumov, IntechOpen, 2021, ISBN: 978-1-83968-227-8, Print ISBN: 978-1-83968-226-1</p> <p>Scientific articles</p>
<b>Assessment methods</b>	The exam includes an oral exam consisting of a discussion of a scientific article, to evaluate the depth of understanding in the topics of the program. It will be also evaluated the ability to speak with propriety of language and organization of the subject exposed.
<b>Further information</b>	=
<b>Sustainable development goals - Agenda 2030</b>	<a href="#">\$lbl legenda sviluppo sostenibile</a>