



MICOLOGY AND PARASITES IN LAB-1

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/02 (SYSTEMATIC BOTANICS)
Department	DEPARTMENT OF BIOLOGY AND BIOTECHNOLOGY "LAZZARO SPALLANZANI"
Course	EXPERIMENTAL AND APPLIED BIOLOGY
Curriculum	Bioanalisi
Year of study	1°
Period	(01/10/2021 - 14/01/2022)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	SAVINO ELENA (titolare) - 3 ECTS RODOLFI MARINELLA - 3 ECTS
Prerequisites	Module 1. Fundamental Mycology: general characteristics of fungi; kindom Fungi: peculiarity of each Phylum.
Learning outcomes	Module 1. Aim of the course is to provide the student mycological knowledge useful in supporting him in his future work as laboratory analyst.
Course contents	Module 1. Mycoses caused by yeasts, dermatophytes, dimorphic and opportunistic fungi and related laboratory diagnostics. Contaminant microfungi of feed and food: problems and analytical methods. Fungi producing mycotoxins: a) mycotoxins and mycotoxicosis; b) macrofungi and mycetism. Aeromycology: outdoor

	and indoor sampling methods; problems related to the aerial dispersion of spores. Culture media and methods for mycological analysis. Methods of identification of microfungi: common laboratory analysis kits and basic criteria for the taxonomic identification on a morpho-dimensional basis.
Teaching methods	Module 1. Face-to-face or remote lessons, carried out through presentations (PowerPoint). In any case, the importance of involving students during the lesson is emphasized. Fungal microscopic images and some videos on the mycological methodologies will be presented to the students.
Reccomended or required readings	Module 1. - Giuseppe Caretta (2012). Micologia medica. C.E.A. (Casa Editrice Ambrosiana) - Polonelli, L. Ajello, G. Morace (1993). Micologia Medica, Società Editrice Esculapio. - Stefano Andreoni, Claudio Farina, Pierluigi Lombardi (2003). Atlante di micologia medica. Systems Comunicazioni - Laboratory Manual Series 4 (1998) by W. Gams, E.S. Hoekstra, A. Aptroot (Eds). CBS-KNAW Fungal Biodiversity Centre, Utrecht (The Netherlands). - Samson, R. A., Houbraken, J., Thrane, U., Frisvad, J. C., & Andersen, B. (2010). Food and indoor fungi. Centraalbureau voor SchimmelcL. Utrecht (The Netherlands).
Assessment methods	Module 1. The exam is oral (face-to face or onlile, depending on the university regulations at the time of the exams); it is scheduled for all students at the end of the course lessons. The exam includes at least three questions on the topics covered in Module 1_Mycology. The interview will be aimed to ascertain the knowledge and skills acquired as well as the personal capacity to re-elaborate the contents.
Further information	Module 1. The exam is oral (face-to face or onlile, depending on the university regulations at the time of the exams); it is scheduled for all students at the end of the course lessons. The exam includes at least three questions on the topics covered in Module 1_Mycology. The interview will be aimed to ascertain the knowledge and skills acquired as well as the personal capacity to re-elaborate the contents.
Sustainable development goals - Agenda 2030	Module 1. Special attention will be dedicated to the issue of food safety, that will be considered with reference to the biological risk caused by ingestion of food contaminated with mycotoxins. \$lbl_legenda_sviluppo_sostenibile