



Teaching guide:

MASTER'S THESIS

SCHOOL OF MEDICINE
UNIVERSIDAD COMPLUTENSE DE MADRID

I.- IDENTIFICACIÓN

NAME OF THE SUBJECT:	Master's thesis
NUMBER OF CREDITS:	30
CHARACTER:	Compulsory
SUBJECT:	Basic Immunology
MÓDULO:	Master's Degree in Research in Immunology
DEGREE:	Second
SEMESTER/PERIOD:	Microbiology I (Immunology)
DEPARTAMENT/S:	(School of Medicine)

RESPONSIBLE TEACHERS:

The work is done under the direction of the teachers involved in the program, who are responsible for the direction of the research. There is a professor (J. M Martín Villa), responsible for coordinating the reception of the works already written and the presentations for his public defense

Teoría Seminario Tutoría	Coordinator: José Manuel Martín Villa Departament: Microbiología I (Facultad de Medicina) Office: 2 e-mail: jimmvilla@ucm.es
---	---

II.- GOALS

■ GENERAL OBJECTIVE

- The student will autonomously develop original research, potentially publishable in specialized journals, that expands the frontiers of knowledge in Immunology

■ SPECIFIC OBJECTIVES

- Acquire the necessary knowledge to plan and perform experiments in immunology, interpret and discuss the results obtained and, with them, write a work for later public defense
- The work carried out should enable it to take on more ambitious projects such as the doctoral thesis, or develop professional activities in the academic, research, health or industrial, public or private, for which research training in Immunology is required

III.- PREVIOUS KNOWLEDGE AND RECOMMENDATIONS

■ PREVIOUS KNOWLEDGE:

Have satisfactorily completed the previous modules of the Maste.

■ RECOMMENDATIONS:

IV.- CONTENTS

■ BRIEF DESCRIPTION OF THE CONTENTS

The student will be provided with the necessary resources (space, instrumentation, materials, bibliography and access to databases) and the advice of its director (1 director and up to 2 co-directors) who must be doctors. The student must prepare a written report with the results of the TFM, and defend it before a Commission appointed for the purpose. The work developed should allow him to take on more ambitious projects such as the doctoral thesis, or to develop professional activities in the academic, research, health or industrial, public or private, for which research training in Immunology is required.

V.- COMPETENCES

■ GENERAL:

- CG1-CG5

■ SPECÍFIC:

- CE1-CE6

■ TRANSVERSE:

- CT1-CT6

VI. – HOURS OF WORK AND DISTRIBUTION BY ACTIVITY

Activities	ECTS hasta						
	Pres.	Dir.	Aut.	Total	Competences		
Master's thesis	20,5	2,5	7,0	30,0	CG1-5	CE1-6	CT1-6

VII.- METHODOLOGY

The student will perform an experimental work in a laboratory in Immunology. In some cases, students who join the Master are already located in research laboratories, and there will continue the work. In the case of not having a laboratory to carry out this work, they will be assigned a laboratory, so that all students of this Master must have the capacity to carry out this part

part of their training. The coordinator of the TFM will ensure that all students always have a director

The work will be performed for a minimum of 17 weeks (30 hours / week). During this time will be discussed the results obtained with the director of the research project. Finally, a written report will be prepared, with the following structure:

Written report (maximum 15 pages) in English or Spanish with the following sections (in parenthesis maximum number of pages): title, author, director, abstract of the work in 200 words and publications where appropriate (1), introduction and objectives (3), Materials and methods (3), summary results and discussion (6), conclusions (1), bibliography (1) and annexes (papers, abstracts...,if applicable). Students who have articles accepted in Science Citation Index journals may submit them instead of memory.

VIII.- BIBLIOGRAPHY

■ BASIC:

1: Wells WA. Me write pretty one day: how to write a good scientific paper. J Cell Biol. 2004 Jun 21;165(6):757-8

2: Neill US. How to write a scientific masterpiece. J Clin Invest. 2007 Dec;117(12):3599-602.

■ ADDITIONAL:

3: A GUIDE TO WRITING YOUR MASTERS DISSERTATION. School of Management & Languages

<http://www2.hw.ac.uk/sml/postgraduate/downloads/dissertations/dissertationguide.pdf>

4: CÓMO ELABORAR, TUTORIZAR Y EVALUAR UN TRABAJO DE FIN DE MÁSTER http://www.aqu.cat/doc/doc_18533565_1.pdf

IX.- EVALUATION

The final report of the TFM must be approved by the tutor (apt / not fit) and defended orally in a public act before the TFM Commission, which will qualify its excellence on 10 points according to the scale established in RD 1125/2003, having The following weighted criteria:

- Report of the academic tutor, up to 15%
- Written memory of the TFM, up to 30%
- Presentation and defense of the TFM, up to 40%
- Knowledge and skills acquired, up to 15%..

The TFM Board will consist of three Master's professors and will be appointed annually by the Dean of the Coordinating University at the proposal of the Master Coordination Council

