



Subject: Master's Thesis
Code: 32513
Centre: School of Medicine
Title: Master in Pharmacological Research
Level: Master
Type: Compulsory
N° of Credits: 30
Academic Course: 2017-18

1. COURSE TITLE

Master's Thesis

1.1. Course number

32513

1.2. Content area

Pharmacological and physiological research

1.3. Course type

Compulsory subject

1.4. Course level

Master

1.5. Year

1st

1.6. Semester

Second

1.7. Language

English

1.8. Prerequisites

Previous attendance to the General and Specialized Modules of the Master. Level B2 in English is required since the subject will be taught in that language.

1.9. Minimum attendance requirement

Attendance to theoretical and practical classes is mandatory; the student must attend at least 80% of them.



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1.10. Faculty data

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1.11. Course objectives

Abilities:

Basic and general

- To acquire and understand basic knowledge allowing to the development and/or application for new ideas in a research context
- The students should be able to apply the acquired knowledge and their ability to solve problems in new or not well known environments, including wide and multidisciplinary contexts related to their study topics
- The students should be able to integrate knowledge and suggest an opinion, from information that can be incomplete or limited, including considerations about social and ethic related responsibilities related to such knowledge and opinion
- The students should be able to communicate their conclusions, and the knowledge and reasons sustaining them, in a clear manner without ambiguities
- The students should acquire the learning abilities for studying in a self-directed and autonomous manner
- To acquire the knowledge, abilities and skills required for develop an innovative and high quality research in Pharmacology



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Title: Master in Pharmacological Research
Level: Master
Type: Compulsory
N° of Credits: 30
Academic Course: 2017-18

Transverse

- Ability to develop a self-teaching plan and to perform an independent bibliographical or database reference in scientific, technical, or regulatory sources
- Ability to perform a correct scientific or technical speech, both to an specialized environment or to general public, including the academic one
- Ability to lead the work in a team, collaborating with internal or external individuals; to be able to organize properly the tasks, focusing them to specific objectives
- To acquire personal, professional, and social responsibility, either in the Academy, in a company, or in public administration

Specific

- To know the main therapeutic targets in cardiovascular and nervous system diseases, analyzing its physiological significance and therapeutic possibilities
- To identify new potential therapeutic targets, both in cardiovascular and nervous system diseases, analyzing its biological significance and therapeutic possibilities
To know the more widely used techniques and research experimental models, both in Cardiovascular Pharmacology and Psychoneuropharmacology
- To be able to design and develop studies in experimental models for pharmacological research, according to the current scientific, ethic, and regulatory principles
- To be able to analyze data from pharmacological studies
- To know practically the different parts of experimental work in Pharmacology, processing and analyzing the results, and elaborating a final discussion and presentation
- To design and develop research plans in Pharmacology

The student will stay in a laboratory, working in one of the research lines exposed. The student will be involved in research work, participating actively in designing, performing, and analysing the experiments. At the end of the stay, the student will prepare and defend, in a public exposition, the Master's Thesis.



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1.12. Course contents

The proposed research topics in Cardiovascular Pharmacology and Physiology are founded in the web site: <http://www.uam.es/otros/mfarma/mfarma/Principal.html>

DEPARTMENT OF PHARMACOLOGY-UNIVERSIDAD AUTONOMA DE MADRID

Research topics	Advisor(s)
Inflammation, prostanoids, and oxidative stress in vascular alterations in hypertension and obesity Signalling pathways related to hypertensive vasculopathy	- Mercedes Salaiques Sánchez - Ana Briones Alonso
Mechanisms involved in the vascular and metabolic alterations in cardiovascular diseases	- Ana Briones Alonso - Mercedes Salaiques Sánchez
Mechanisms involved in diabetic vasculopathy	- Carlos F. Sánchez Ferrer - Concepción Peiró Vallejo
Adipokines and vascular disease	- Concepción Peiró Vallejo
Vascular aging	- Carlos F. Sánchez Ferrer

DEPARTMENT OF PHYSIOLOGY -UNIVERSIDAD AUTONOMA DE MADRID

Research topics	Advisor(s)
Ischaemia-reperfusion in cerebral and coronary circulation	- Nuria Fernández - Angel Luis García Villalón - Luis Monge
Hypertension and vascular reactivity. Involved mechanisms	- Gloria Balfagón Calvo
Influence of endogenous sexual hormones in vascular function	- Mercedes Ferrer Parra
Role of serotonergic innervation in vascular tone control	- Angel Luis López de Pablo
Evaluation of antioxidant compounds effects on vascular pathology	- Silvia Arribas - M ^a Victoria Conde - M ^a Carmen González
Hypoxia and vascular pathology	- M ^a Carmen González
Interactions in adrenergic system and adrenergic receptors. Role in arterial hypertension	- M ^a Victoria Conde
Relationships between elastin and vascular pathology	- Silvia Arribas
Effects of obesity and aging on cardiovascular system: therapeutic strategies through dietary intervention	- Miriam Grando García



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DEPARTMENT OF MEDICINE-UNIVERSIDAD AUTONOMA DE MADRID

Research topics	Advisor(s)
Pathogenesis and treatment of atherosclerosis. Cardiovascular proteomics	- Jesús Egido de los Ríos
/ Molecular basis for hypertension and fibrosis	- Marta Ruiz Ortega
Treatment of renal disease. Apoptosis	- Alberto Ortiz
Treatment of cardiovascular pathology	- José Tuñón
Inflammation and immune mechanisms in renal and vascular pathology	- Carmen Gómez-Guerrero
Diabetes and cardiovascular disease	- Oscar Lorenzo
Inflammatory mechanisms and biomarker of cardiovascular diseases	- Luis M Blanco Colio
Mechanisms involved in vascular remodeling in atherosclerosis and aneurysm	José Luis Martín Ventura
Role for adipokines in metabolic síndrome and diabetes mellitus and its vascular effects	- Raffaele Carraro
Epithelium-mesenchymal transition of peritoneal mesothelial cells	- Rafael Selgas Gutiérrez - M ^a Auxiliadora Bajo

DEPARTMENT OF PHARMACOLOGY-UNIVERSIDAD COMPLUTENSE DE MADRID

Research topics	Advisor(s)
Action potential recording in multicellular cardiac preparations	- Eva Delpón - Ricardo Caballero - Juan Tamargo
Ionic flux recording by patch-clamp in enzymatically dissociated cardiac myocytes	- Eva Delpón - Ricardo Caballero - Juan Tamargo
Ionic flux recording by patch-clamp in non-excitabile cells transfected with ionic channels cloned from human cardiac tissue	- Eva Delpón - Ricardo Caballero - Juan Tamargo
Molecular biology techniques applied to cardiac electrophysiology	- Eva Delpón - Ricardo Caballero - Juan Tamargo
Vascular remodelling, inflammation, oxidative stress, and Diabetes Mellitus in humans. Pronostic factors in postchirurgical evaluation in myocardial revascularization surgery	- Teresa Tejerina Sánchez
Age-related changes in the intracellular calcium movements in human vascular smooth muscle cells	- Teresa Tejerina Sánchez
Endothelial stem cells in diabetic patients submitted myocardial revascularization surgery	- Teresa Tejerina Sánchez
Vasoactive factors: vasoconstrictor mechanisms and its involvement in pulmonary hypertension	- Francisco Perez Vizcaíno - Angel Cogolludo Torralba



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DEPARTMENT OF HEALTH SCIENCES III- UNIVERSIDAD REY JUAN CARLOS

Research topics	Advisor(s)
Role of nuclear receptors PPARgamma in the functional vascular changes associated to hypertension	- M ^a Jesús Alonso Gordo - Raquel Hernanz Martin

The proposed research topics in Neuropsychopharmacology are founded in the web site: <http://www.uam.es/otros/mfarma/mfarma/Principal.html>

**RESEARCH INSTITUTE TEOFILO HERNANDO FOR DRUG DISCOVERY (ITH)-
DEPARTMENT OF PHARMACOLOGY-UNIVERSIDAD AUTONOMA DE MADRID**

Research topics	Advisor(s)
Calcium signalling and neurotransmission	- Antonio García García - Luis Gandía Juan
Nicotinic receptors and neurotransmission	- Antonio García García - Luis Gandía Juan
Calcium signalling and neuronal death	- Antonio García García - Manuela García López
Nicotinic receptors and neuroprotection	- Antonio García García - Manuela García López
Control of neuroinflammation and neuroprotection	- Manuela García López
Search for new drugs for treating neurodegenerative diseases	- Manuela García López

DEPARTMENT OF PHARMACOLOGY -UNIVERSIDAD AUTONOMA DE MADRID

Research topics	Advisor(s)
Molecular mechanisms involved in the regulation of inflammatory response in human sepsis	- Carmen Montiel López
Characterization and relevance of anti-inflammatory cholinergic pathways in human disease	- Carmen Montiel López - Manuela García López
Ionic channels: voltaje-dependent calcium channels, potassium channels	- Almudena Albillos Martínez
Calcium and intracelular organelles	- Almudena Albillos Martínez
Nicotinic receptors	- Almudena Albillos Martínez
Drugs regulating calcium homeostasis	- Almudena Albillos Martínez
Poros de fusión	- Almudena Albillos Martínez
Neurotransmitters exocytosis	- Almudena Albillos Martínez



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SERVICE OF CLINICAL PHARMACOLOGY - HOSPITAL UNIVERSITARIO DE LA PRINCESA

Research topics	Advisor(s)
Clinical trial sin phases I and II: design, development, analysis	- Francisco Abad Santos
Pharmacogenetics: metabolizing enzymes and receptors	- Francisco Abad Santos

SERVICE OF CLINICAL PHARMACOLOGY - HOSPITAL UNIVERSITARIO LA PAZ

Research topics	Advisor(s)
Clinical trial sin phases I and II: design, development, analysis	- Jesús Frías Iniesta - Antonio Carcas Sansuán - Pedro Guerra López
Pharmacogenetics: metabolizing enzymes and receptors	- Jesús Frías Iniesta - Antonio Carcas Sansuán - Pedro Guerra López

1.13. Course bibliography

Bibliographic references will be original research works or recent reviews, distributed by the teachers or obtained by the students after the corresponding search in PubMed

2. Teaching methodology

RESEARCH WORK

The student will be fully integrated in the respective laboratory the experimental period for the Master's Thesis, which includes design, performance, and discussion of the results. Moreover, the assistance to the Research Meetings Teófilo Hernando during that period is mandatory.



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3. Student workload

		N° de horas	Porcentaje
Contact hours	Research seminars attendance	45h	6%
	Weekly lab work (thirtyfive h x eighteen weeks)	630 h	84%
	Preparation of the Master's Thesis	60 h	
Independent study time	Presentation of the Master's Thesis	15 h	8%
			2%
Carga total de horas de trabajo: 25 horas x 30 ECTS		750 h	

4. Evaluation procedures and weight of components in the final grade

The evaluation will include three main components. First, attendance and participation of the students in the research seminars linked to the Master. In addition, a continuous evaluation by the tutor will evaluate experimental work performed (30% of the final the final mark). Finally, the writing of a scientific manuscript about the performed research, as well as an oral exposition concerning this scientific work, which should be prepared, exposed, and discussed in a public manner, will be evaluated by a commission of teachers from the Master (60% of the final mark).

5. Course calendar

Timetable will be indicated in the website:

http://www.uam.es/ss/Satellite/Medicina/es/1242667165286/subhome/Master_Universitario_en_Investigacion_Farmacologica.htm