

STRUCTURE OF THE PROGRAMME >> THESIS DIRECTORS

All the Thesis Directors are PhDs who participate in the **Doctoral Programme in Biotechnology and Genetic Resources of Plants and Associated Microorganisms**. Most of them are members of the UPM Department of Biotechnology-Plant Biology, although there are also external members of associated research centers such as INIA/CSIC or other centers around Madrid such as CIB-CSIC or IMIDRA. The following list shows the members of the Doctoral Program who belong to the UPM and who can therefore act as tutors in the case of students from other non-UPM centers.

UPM MEMBERS OF THE DOCTORAL PROGRAMME 02E4-DOCTATE IN BIOTECHNOLOGY AND GENETIC RESOURCES OF PLANTS AND ASSOCIATED MICROORGANISMS

Professor		Res. Line	Research Area / Principal investigator in the area Surname
Surname	Name		
ALLONA ALBERICH	ISABEL MARTA	1	Environmental control of plant development. Allona, M. Perales
BENAVENTE BARZANA	MARIA ELENA	1	Plant Breeding/ E. Benavente
BENITO CASADO	BEGOÑA	1	Plant hormonal regulatory networks/ S. Pollmann
CONDE RODRÍGUEZ	DANIEL	1	Vascular development in perennial plants and abiotic response/ D. Conde
DIAZ PERALES	ARACELI	1	Plant Allergens/ A. Díaz Perales
DIAZ RODRIGUEZ	M. ISABEL	1	Molecular Plant-Pest Interactions/ I. Díaz
GARRIDO ARANDIA	MARÍA	1	Plant allergens/ A. Díaz Perales
GIRALDO CARBAJO	PATRICIA	1	Plant breeding/ P. Giraldo
GONZALEZ BENITO	M. ELENA	1	Plant germoplasm/ M. Elena González Benito
IGLESIAS FERNANDEZ	RAQUEL	1	Gene expression control and autophagy / R Iglesias
ISIDRO SÁNCHEZ	JULIO	1	Genomic assisted breeding / J. isidro
MARTIN CLEMENTE,	JUAN PEDRO	1	Biodiversity and conservation of Phylogenetic Resources/ J.P Martín
MARTIN FERNANDEZ	M ^o CARMEN	1	Plant germoplasm/ M.C. Martín
MIEDES VICENTE	EVA	1	Biodiversity and conservation of Phylogenetic Resources/ J.P Martín
MIRA PEREZ	SARA	1	Plant germoplasm/ M. Elena González Benito
MORENO RISUEÑO	MIGUEL ANGEL	1	Root organogenesis, regeneration and rooting/ M.A. Moreno
OÑATE SANCHEZ	LUIS	1	Growth and stress responses in early seed development/ L.Oñate
PERALES	MARIANO	1	Environmental control of plant development. Allona, M. Perales
PÉREZ CANTALAPIEDRA	CARLOS	1	Compared genomics and metagenomics/ C. Pérez
PÉREZ GARCIA	PABLO	1	Plant allergens/ A. Díaz Perales
PASCUAL BAÑULS	LAURA	1	Plant breeding/ P. Giraldo
POLLMANN	STEPHAN	1	Plant Hormonal Regulatory Networks/ S. Pollmann
TOME ABAT	JAIME	1	Plant allergens/ A. Díaz Perales
VICENTE CARBAJOSA	JESUS	1	Redes reguladoras en el desarrollo y estrés en plantas/ J Vicente Carbajosa
WABNIK	KRZYSZTOF	1	Synthetic biology of plant signaling circuits/ K Wabnik
ALBAREDA CONTRERAS	MARTA	2	Associations of Symbiotic Bacteria with Plants/ J. Palacios
AYLLON TALAVERA	M ^a ANGELES	2	Virus-Fungus-Plant Interaction: Mycovirus of Botrytis Cinerea/ M.A. Ayllón
BUREN	NILS STEFAN	2	Biochemistry of Nitrogen Fixation / Luis M. Rubio
CARO BERNAT	ELENA	2	Transgene Silencing in Plant Biotechnological Applications/ E. Caro
ECHEVARRI ERASUN	CARLOS	2	Biochemistry of Nitrogen Fixation / Luis M. Rubio
ESCUDERO WECH	VIVIANA	2	Metal homeostasis in plant-microbe interactions/ M. González Guerrero
GARCIA-ARENAL RODRIGUEZ	FERNANDO	2	Plant-Virus Interaction and Co-Evolution/ F. García Arenal
GONZALEZ GUERRERO	MANUEL	2	Metal homeostasis in plant-microbe interactions/ M. González Guerrero
GONZALEZ-MELENDE DE LEON	PABLO	2	Molecular Plant-Pest Interactions/ I. Díaz
JORDA MIRO	LUCIA	2	Plant Innate Immunity and Resistance to Necrotrophic Fungi/ A. Molin
LOPEZ SOLANILLA	EMILIA	2	Phytopathogenic Bacteria/ E. López Solanilla
MOLINA FERNANDEZ	ANTONIO	2	Plant Innate Immunity and Resistance to Necrotrophic Fungi/ A. Molina
PALACIOS ALBERTI	JOSE MANUEL	2	Associations of Symbiotic Bacteria with Plants/ J. Palacios
PEREZ GARCIA	ANA	2	Biochemistry of Nitrogen Fixation / Luis M. Rubio
REY NAVARRO	LUIS	2	Associations of Symbiotic Bacteria with Plants/ J. Palacios
RODRÍGUEZ HERVA	JOSE JUAN	2	Phytopathogenic Bacteria/ E. López Solanilla
RODRIGUEZ ROMERO	JULIO LUIS	2	Virus-Fungus-Plant Interaction: Mycovirus of Botrytis Cinerea/ M.A. Ayllón
SACRISTAN BENAYAS	SOLEDAD	2	Ecological and Molecular Factors Involved in Fungal Endophytism and Pathogenesis/ S. Sacristan
SANTAMARIA FERNANDEZ	M ^a ESTRELLA	2	Plant defense trade-offs in plant-pest interactions/ E. Santamaría
SANCHEZ VALLET	ANDREA	2	Molecular mechanisms of virulence of fungal wheat pathogens/ A. Sánchez Vallet
TORRES LACRUZ	MIGUEL ANGEL	2	Plant Innate Immunity and Resistance to Necrotrophic Fungi/ A. Molina

COUCE	ALEJANDRO	3	Evolutionary Systems Biology of Genomes/ A. Couce
DABOS	MARIA L. BELEN	3	Evolutionary Systems Biology of Genomes/ A. Couce
IRANZO SANZ	JAIME	3	Evolutionary dynamics of genomes, viruses, and microbial populations/ J. Iranzo
GOÑI MORENO	ANGEL	3	Biocomputing with synthetic biological systems/ A. Goñi
MARTINEZ MUÑOZ	MANUEL	3	Molecular Plant-Pest Interactions/ I. Díaz
PAGAN MUÑOZ	JESUS ISRAEL	3	Determinants of plant virus seed transmission and speciation/ I. Pagán
WILKINSON	MARK DENIS	3	Biological Informatics/ M. Wilkinson
MARAKOVSKY	NATALIA	1	Student in the Programme
Research Line 1: Biotechnology, Breeding and Genetic Resources			
Research Line 2: Biotic and Abiotic Interactions			
Research Line3: Computational Biology			