

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 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.

MEMBERS UPM OF THE PROGRAMME

02E4-BIOTECHNOLOGY AND GENETIC RESOURCES OF PLANTS AND ASSOCIATED MICROORGANISMS

| Profesor | | Linea Invest. | Área de Investigación/Investigador principal del área |
|--|---------------------------------------|---------------|---|
| Apellidos | Nombre | | |
| ALLONA ALBERICH | ISABEL MARTA | 1 | Seasonal and Circadian Control of Growth-Dormancy Cycle in Trees/I. Allona |
| BENAVENTE BARZANA | MARIA ELENA | 1 | Plant Breeding/ E. Benavente |
| BENITO CASADO | BEGOÑA | 1 | Na+ and K+Homeostasis del in plants and fungi/ B. Benito |
| CARRILLO BECERRIL | JOSÉ MARIA | 1 | Plant Breeding/ P. Giraldo |
| DIAZ PERALES | ARACELI | 1 | Plant Allergens/ A. Díaz Perales |
| 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 | Regulatory networks in plant development and stress responses/ J Vicente Carbajosa |
| MARTIN CLEMENTE, | JUAN PEDRO | 1 | Biodiversity and conervation of Phytogenetic Resources/ C. Pérez |
| MARTIN FERNANDEZ | MARIA CARMEN | 1 | Plant Germoplasm/M. Elena González Benito |
| MIEDES VICENTE | EVA | 1 | Biodiversity and conervation of Phytogenetic Resources/ C. Pérez |
| 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 | Studying Gibberellin Signaling to Improve Seed Germination and Resistance to Stress / L.Oñate |
| PERALES | MARIANO | 1 | Seasonal and Circadian Control of Growth-Dormancy Cycle in Trees/M. Perales |
| PÉREZ GARCIA | PABLO | 1 | Plant Allergens/ A. Díaz Perales |
| PEREZ RUIZ | CESAR FELIX | 1 | Biodiversity and conervation of Phytogenetic Resources/ C. Pérez |
| 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 | Biología sintética de circuitos de señalización en plantas/ K Wabnik |
| ALBAREDA CONTRERAS | MARTA | 2 | Associations of Symbiotic Bacteria with Plants/ J. Palacios |
| AYLLON TALAVAERA | 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 |
| DIAZ RODRIGUEZ | M. ISABEL | 2 | Molecular Plant-Pest Interactions/ I. Díaz |
| 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-MELENDI DE LEON | PABLO | 2 | Molecular Plant-Pest Interactions/ I. Díaz |
| IMPERIAL RODENAS | JUAN | 2 | Genomics and Biotechnology of Plant-Associated Diazotrophic Bacteria / J. Imperial |
| JORDA MIRO | LUCIA | 2 | Plant Innate Immunity and Resistance to Necrotrophic Fungi/ A. Molina |
| LOPEZ SOLANILLA | EMILIA | 2 | Phytophogenic Bacteria/E. López Solanilla |
| MCLEISH | MICHAEL JOHN | 2 | Plant-Virus Interaction and Co-Evolution/F. García Arenal |
| 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 |
| REY NAVARRO | LUIS | 2 | Associations of Symbiotic Bacteria with Plants/ J. Palacios |
| RUBIO HERRERO | LUIS MANUEL | 2 | Biochemistry of Nitrogen Fixation / Luis M. Rubio |
| SACRISTAN BENAYAS | SOLEDAD | 2 | Ecological and Molecular Factors Involved in Fungal Endophytism and Pathogen/ S. Sacristan |
| SANTAMARIA FERNANDEZ | MARIA ESTRELLA | 2 | Molecular Plant-Pest Interactions/ I. Díaz |
| TORRES LACRUZ | MIGUEL ANGEL | 2 | Plant Innate Immunity and Resistance to Necrotrophic Fungi/ A. Molina |
| COUCE | ALEJANDRO | 3 | Evolucionary Systems Biology of Genomes/ A. Couce |
| FERNANDEZ PACIOS | LUIS | 3 | Plant Allergens/ A. Díaz Perales |
| IRANZO SANZ | JAIME | 3 | Evolutionary dynamics of genomes, viruses, and microbial populations |
| GOÑI MORENO | ANGEL | 3 | Biocomputing with synthetic biological systems/ a. Goñi |

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|--------------------------------|------------------------------|---|--|
| 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 |

Línea de Investigación 1: Biotecnología, Mejora y Recursos Genéticos

Línea de Investigación 2: Interacciones Bióticas y Abióticas

Línea de Investigación 3: Biología Computacional