

Research Lines Related to the Programme	
O2E4-BIOTECHNOLOGY AND GENETIC RESOURCES OF PLANTS AND ASSOCIATED MICROORGANISMS	
Research Line 1: Biotechnology, Breeding and Genetic Resources	
RESEARCHERS	RESEARCH LINE
1 Araceli Diaz Perales; María Garrido, Jaime Tomé	Plant Allergens
2 José A. Jarillo Quiroga; Manuel Piñeiro Galvin	Molecular Bases of Plant Developmental Phase Transitions
3 Juan Pedro Martín Clemente; Eva Miedes; César Pérez	Biodiversity and conservation of plant genetic resources
4 Krzysztof Wabnik	Biología sintética de circuitos de señalización en plantas/ K Wabnik
5 Isabel Allona	Seasonal and Circadian Control of Growth-Dormancy Cycle in Trees
6 Mariano Perales	Seasonal and Circadian Control of Growth-Dormancy Cycle in Trees
7 Mónica Pernas	Root developmental traits associated with plant adaptability to extreme environmental conditions
8 Elena González Benito; Sara Mira Pérez; Carmen Martín Fernández	Plant Germoplasm
9 Begoña Benito Casado	Na⁺ and K⁺ Homeostasis del in plants and fungi
11 Almudena Lázaro, Francisco Javier Tardío	Agroalimentary Research
12 Elena Benavente; José María Carrillo; Patricia Giraldo; Laura Pascual	Plant Breeding
13 Miguel Angel Moreno Risueño, Pablo Pérez	Root Organogenesis, Regeneration and Rooting
15 Stephan Pollmann	Plant Hormonal Regulatory Networks
16 Jesús Vicente Carbajosa; Raquel Iglesias	Redes reguladoras en el desarrollo y estrés en plantas
17 Juan Carlos del Pozo	Regulation of Lateral Root Development During Nutrient Deficiencies
18 Luis Oñate	Studying Gibberellin Signaling to Improve Seed Germination and Resistance to Stress

Research Line 2: Biotic and Abiotic Interactions	
RESEARCHERS	RESEARCH LINE
1 Emilia López-Solanilla	Phytophogenic Bacteria
2 Luis Manuel Rubio Herrero; Carlos Echavarrí Erasun; Stephan Buren	Biochemistry of Nitrogen Fixation
3 Fernando Ponz Ascaso	Plant Virus Biotechnology
4 Soledad Sacristán	Ecological and Molecular Factors Involved in Fungal Endophytism and Pathogenesis
5 Juan Imperial	Genomics and Biotechnology of Plant-Associated Diazotrophic Bacteria
6 Manuel González Guerrero; Viviana Escudero	Metal homeostasis in plant-microbe interactions
7 Antonio Molina; Lucía Jordá; Miguel Angel Torres;	Plant Innate Immunity and Resistance to Necrotrophic Fungi
8 Alberto Ferreres, Aranzazu Moreno	Insects as Vectors of Pathogens of Plants
9 Félix Ortego Alonso	Interaction Plant-Insect
10 Fernando García-Arenal; Michael McLeish	Plant-Virus Interaction and Co-Evolution
11 María Angeles Ayllón	Interacción Virus-Hongo-Planta: Micovirus of Botrytis Cinerea
12 Isabel Díaz, M.Estrella Santamaria	Molecular Plant-Pest Interactions
13 José Manuel Palacios; Luis Rey, Marta Albareda	Associations of Symbiotic Bacteria with Plants
14 Rosa Raposo	Forest Pathology
15 Elena Caro	Transgene Silencing in Plant Biotechnological Applications
16 Joaquin Medina	Molecular Responses in Plant Abiotic Stress and Energy Signalling
17 César Llave; Virginia Ruiz Ferrer	Regulation and stress: biogenesis and role of small RNAs in plant-virus interactions

Research Line3: Computational Biology	
RESEARCHERS	RESEARCH LINE
1 Alejandro Couce	Evolucionary Systems Biology of Genomes
2 Luis Fernández Pacios	Plant Allergens/ A. Díaz Perales
3 Jaime Iranzo Sanz	Evolutionary dynamics of genomes, viruses, and microbial populations
4 Angel Goñi Moreno	Biocomputing with synthetic biological systems
5 Manuel Martínez Muñoz	Molecular Plant-Pest Interactions/ I. Díaz
6 Israel Pagán	Determinants of plant virus seed transmission and speciation
7 Mark Wilkinson	Biological Informatics

