

INFORMATION ABOUT THE PERSON FILLING THE FORM	
Name and family name	Lorena Gómez Aparicio
Research organization	Institute of Natural Resources and Agrobiology (IRNAS-CSIC)
Position in the organization	Head of the SIFOMED (Mediterranean Forest Systems) research group
Country	Spain
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EXPERIMENTAL SITE ¹	
Name of the site	Parque Nacional de Doñana (Doñana National Park) http://www.magrama.gob.es/es/red-parques-nacionales/nuestros-parques/donana/
Location of the site	Huelva province (South-western Spain)
	Postal address
	UTM coordinates: Latitude/Longitude (37º/06º)
Start date	Year since the experimental site has been operative: 2009
Characteristics of the forest ecosystem where it is located	<p>Most relevant features:</p> <ul style="list-style-type: none"> - Vegetation: Mediterranean <i>Quercus suber</i> forests and shrublands - Soil characteristics: sandy soils, dunes - Mean annual temperature: 16-17 °C - Mean annual rainfall: 550 mm - Altitude, slope, aspect: sea level
Keywords	<i>Causes and consequences of Q. suber dieback; bird-plant-microbe interactions; restoration of degraded Q. suber forests</i>
Scientific characteristics	<p>Scientific objectives:</p> <ul style="list-style-type: none"> - Understand the role of plant-plant, plant-animal and plant-microbe interactions for the function and dynamics of Mediterranean forests under different global change scenarios. - Explore the causes and consequences of regeneration limitation and adult tree mortality in <i>Quercus suber</i> forests affected by decline - Analysis of biogeochemical cycles and soil microbial communities in Mediterranean forests subjected to different disturbance regimes
	<p>Interest for users</p> <p>Good example of Mediterranean evergreen forests affected by problems of regeneration and tree mortality due to global change drivers (climate change, exotic species) and a long history of human overexploitation</p>
	<p>Particularities in comparison to others sites</p> <ul style="list-style-type: none"> - Mediterranean mixed oak forests affected by different levels of tree decline - Forests with a long history of human use (cork and wood production, cattle raising) - Presence of the exotic soil-borne pathogen <i>Phytophthora cinnamomi</i> in the soils
	<p>Research projects in the frame of which the experimental site is used (include web site address)</p> <ul style="list-style-type: none"> - Impact of wading birds on the biogeochemical cycles of Mediterranean forest ecosystems (BIOGEOBIRD). 2011-2014. Andalucía Regional Government. - The decline of cork oak forests in the Doñana National Park (DECALDO). 2009-2013. Ref. 091/2009. National Parks' Organism, Ministry of the Environment and Rural and Marine Affairs (http://www.irnase.csic.es/users/pajarera/home.php)

¹ Note: This information could be published in the webpage of FORESTERRA.



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Technical characteristics	<i>Detailed description (including instrumentation)</i> - Monitoring of 70 geo-referred centenary <i>Q. suber</i> trees - System of nine experimental herbivore exclusions (3-10 ha in size)
	<i>Measured parameters</i> - Regeneration of woody species (seed production and predation; seedling and sapling abundance) - Health, structure and composition of the adult tree community - Characteristics of the abiotic environment (light, soil moisture, soil physical and chemical properties) - Characteristics of the soil biotic communities (pathogen abundance, mycorrhizal abundance and diversity, microbial functional diversity)
	<i>If there is any file, map or images relevant about this infrastructure, please attach them (indicating here the name of the file).</i>
SCIENTISTS AND/OR TECHNICIANS IN CHARGE OF THE INFRASTRUCTURE	
Principal investigator	<i>Luis Ventura García (ventura@cica.es)</i>
One additional line per person	<i>Adela Moreno Pérez (adela@irnase.csic.es)</i> <i>Cristina Ramo Herrero (cristina@ebd.csic.es)</i>
ADMINISTRATIVE INFORMATION	
Availability for participating in mutual measurements	<i>Yes</i> <i>Luis Ventura García (ventura@cica.es)</i>
	<i>Conditions or Policy of use: no particular conditions</i>
Availability for accessing the data collected	<i>Yes</i> <i>Luis Ventura García (ventura@cica.es)</i>
	<i>Conditions or Policy of use: data should already been published</i>
Institution that manages the site	<i>IRNAS-CSIC</i> <i>http://www.irnase.csic.es/</i>
	<i>IRNAS-CSIC</i> <i>http://www.irnase.csic.es/</i>
Is the site participating in a national or international Network?	<i>No</i>
	<i>URL address</i>
Is the site open for transnational collaboration?	<i>Yes</i> <i>Conditions: to participate in the resulting scientific publications</i>