

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
E-mail	lorenag@irnase.csic.es
EXPERIMENTAL SITE <sup>1</sup>	
Name of the site	Parque Natural de los Alcornocales (Alcornocales Natural Park) <a href="http://www.juntadeandalucia.es/medioambiente/servtc5/ventana/mostrarficha.do?jsessionid=EB99F9C9AFE2C87E1763AC8990CEFECO?idEspacio=7410">http://www.juntadeandalucia.es/medioambiente/servtc5/ventana/mostrarficha.do?jsessionid=EB99F9C9AFE2C87E1763AC8990CEFECO?idEspacio=7410</a>
Location of the site	Cádiz province (South-western Spain)
	Postal address
	UTM coordinates: Latitude/Longitude (36°/05°)
Start date	Year since the experimental site has been operative: 2002
Characteristics of the forest ecosystem where it is located	<p><i>Most relevant features:</i></p> <ul style="list-style-type: none"> <li>- Vegetation: Mediterranean oak forests and shrublands</li> <li>- Dominant tree species: <i>Quercus suber</i>, <i>Olea europaea</i>, <i>Quercus canariensis</i></li> <li>- Soil characteristics: bedrock dominated by sandstones interspersed with layers of marl sediments</li> <li>- Mean annual temperature: 15.4 – 17.3 °C</li> <li>- Mean annual rainfall: 726 - 1097 mm</li> <li>- Altitude, slope, aspect: between 200 and 700 m a.s.l., gentle slopes</li> </ul>
Keywords	<i>Community dynamics of mixed oak forests; consequences of forest dieback; ecosystem function under global change</i>
Scientific characteristics	<p><i>Scientific objectives:</i></p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Explore the causes and consequences of regeneration limitation and adult tree mortality in <i>Quercus suber</i> forests affected by decline</li> <li>- Analysis of biogeochemical cycles and soil microbial communities in Mediterranean forests subjected to different disturbance regimes</li> </ul>
	<p><i>Interest for users</i></p> <p>Good example of water-limited Mediterranean oak forests affected by problems of regeneration and/or tree mortality due to global change drivers (climate change, exotic species) and a long history of human overexploitation</p>
	<p><i>Particularities in comparison to others sites</i></p> <ul style="list-style-type: none"> <li>- Mediterranean mixed oak forests affected by different levels of tree decline</li> <li>- Forests with a long history of human use (cork and wood production, cattle raising)</li> <li>- Presence of the exotic soil-borne pathogen <i>Phytophthora cinnamomi</i> in the soils</li> </ul>
	<p><i>Research projects in the frame of which the experimental site is used (include web site address)</i></p> <ul style="list-style-type: none"> <li>- The role of plant-soil feedbacks in the dynamics of declining <i>Quercus</i> forests (RETROBOS). 2012-2014. CGL2011-26877, Spanish Ministry of Science and Innovation.</li> <li>- Spatial patterns of seed dispersal in two <i>Quercus</i> species: an experimental approach using neighbourhood models. 2013-2014. Spanish Association of Terrestrial Ecology.</li> </ul>

<sup>1</sup> Note: This information could be published in the webpage of FORESTERRA.



# FORESTERRA

Enhancing FOrest RESearch in the MediTERRAnean through improved coordination and integration



	- Past projects: INTERBOS ( <a href="http://www.irnase.csic.es/users/interbos/inicio.php">http://www.irnase.csic.es/users/interbos/inicio.php</a> ), DINAMED ( <a href="http://www.irnase.csic.es/users/dinamed/?op=1&amp;lin=en">http://www.irnase.csic.es/users/dinamed/?op=1&amp;lin=en</a> )
<b>Technical characteristics</b>	<i>Detailed description (including instrumentation)</i> Network of nine permanent 1-ha forest plots (data-loggers, seedling quadrats, litter and seed traps)
	<i>Measured parameters</i> - Regeneration of woody species (seed production, dispersal and predation; seedling emergence, survival and growth; seedling diversity) - Health, structure and composition of the adult tree community - Dynamics of litter production - Ecosystem processes (soil respiration, nitrification, N-mineralization) - 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>
<b>SCIENTISTS AND/OR TECHNICIANS IN CHARGE OF THE INFRASTRUCTURE</b>	
<b>Principal investigator</b>	Lorena Gómez Aparicio ( <a href="mailto:lorenag@irnase.csic.es">lorenag@irnase.csic.es</a> )
<b>One additional line per person</b>	Ignacio Manuel Pérez Ramos ( <a href="mailto:imperez@irnase.csic.es">imperez@irnase.csic.es</a> )
<b>ADMINISTRATIVE INFORMATION</b>	
<b>Availability for participating in mutual measurements</b>	Yes Lorena Gómez Aparicio ( <a href="mailto:lorenag@irnase.csic.es">lorenag@irnase.csic.es</a> )
	<i>Conditions or Policy of use: no particular conditions</i>
<b>Availability for accessing the data collected</b>	Yes Lorena Gómez Aparicio ( <a href="mailto:lorenag@irnase.csic.es">lorenag@irnase.csic.es</a> )
	<i>Conditions or Policy of use: data should already been published</i>
<b>Institution that manages the site</b>	IRNAS-CSIC <a href="http://www.irnase.csic.es/">http://www.irnase.csic.es/</a>
	IRNAS-CSIC <a href="http://www.irnase.csic.es/">http://www.irnase.csic.es/</a>
<b>Is the site participating in a national or international Network?</b>	No
	<i>URL address</i>
<b>Is the site open for transnational collaboration?</b>	Yes <i>Conditions: to participate in the resulting scientific publications</i>