

Name SURNAME: Susana CARVALHO		
Function:	Researcher/Professor	
Institution:	Faculty of Sciences University of Porto (FCUP)	<input type="checkbox"/> Funding Agency <input type="checkbox"/> Programme Manager
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Division		
Areas of Expertise:		
<p>During the last 15 years of research, Dr. Carvalho has been mostly focused on horticulture, ecophysiology, plant physiology and plant nutrition. Author of about 75 publications in this field (including 38 articles ranked in ISI http://orcid.org/0000-0001-7157-1079) and has presented more than 45 communications in international congresses. S. Carvalho was the coordinator of 5 R&D projects (attracting a total of 670K € of competitive funding) and actively participated as member of the research team in several other R&D projects, including 2 EC projects.</p>		
Short Description of your Institution:		
<p>University of Porto (UPorto, https://sigarra.up.pt/up/en/) is Portugal's second largest university and one of the most prestigious teaching and research institutions in the country. It has around 1600 non-teaching staff, over 31.000 students and 2300 full-time academic staff, two thirds of which are postgraduates. UPorto is the biggest producer of science in Portugal, with 14 faculties and one business school. The Faculty of Sciences of the University of Porto (FCUP) is one of the oldest and largest faculties of UPorto. It was established in 1911 and has been providing high-quality training in the field of exact and natural sciences and mathematics. Over the years it has been incorporating other fields of studies including Environmental and Agricultural Sciences. The research unit GreenUP/ CITAB-UP was created in November 2015 to gather a multidisciplinary team of researchers from FCUP, working in the field of Agronomy, Food Sciences and Environmental Sciences. GreenUP activities combine fundamental and applied research, addressing innovative solutions to meet the societal challenges of climate changes' mitigation and increasing resource use efficiency ('producing more with less': i.e. more productivity and quality with less water, nutrients and energy). A special focus is given to the protected cultivation of fruits, vegetables and flowers.</p>		
Role in the project:		
<p>In this project FCUP will support INESC-TEC in the development of the NPK sensors, by providing guidelines and specifications for their use and helping in the sensor testing. Moreover, FCUP will coordinate WP5 in which it will be conducted a demo using a cascade system where free drained irrigation water from a greenhouse is being reused for an open field crop.</p>		

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