

Curriculum Vitae



**Personal information**

First name / Family name	<b>Mercedes García Sánchez</b>		
Address(es)	C		
	G		
	C		
Telephone			
Mobile			
E-mail	garcia.sanchez.mercedes@gmail.com		
Nationality	Spanish		
Date of birth			
Gender	Female		

<b>Personal statement and statement of intent</b>	<p><b>Dr. Mercedes García-Sánchez</b> is a postdoctoral researcher in the working group of Agro-Environmental Chemistry and Plant Nutrition, at the Czech University of Life Sciences of Prague (Czech Republic). Mercedes has been working in the field of Soil microbiology, Organic waste management, Saprophytic and Arbuscular fungi and Plant physiology since she began her scientific career in 2005. She has focused her lines of research from <b>soil functional ecology, soil biochemistry, and plant nutrition</b> with emphasis in elucidating the role of plants and soil microorganisms in the functioning of agro/ecosystems and nutrients cycles, often linked to waste products from agro-industrial activities (dry olive residue, manures, apple and grape pomace) and bioenergy processes (digestate, fly ashes, biochars). More specifically, she is currently working in studying changes on functionality and composition of microbial populations during the management of agricultural and degraded soils through organic amendment applications, with especial emphasis in the efficient use of nutrients by microbes and crop production. She combines expertise with soil microbiology and organic fertilizers using biochemical, physiological and molecular techniques, being the combination of these fields necessary to understand changes on microbial functionality, composition and structure. Besides, she has worked for a private company in the Department of innovation and technology and she acquired strong coaching in organic waste microbiology. Her research has led to 18 international publications on peer-reviewed journals, 4 book chapters, being first author in three of them, 1 patent, active participation in 6 funding projects, and several communications in international and national meetings. She has demonstrated her ability for working with researcher of different disciplines through her established active collaborations with Dr. José Manuel Palma Martínez (EEZ-CSIC, Spain) Dr. Espinosa (University of Extremadura, Spain), Dr. de Pinto (University of Bari, Italy), and Prof.RNDR. Tomas Cajthaml, PhD (Academy of Sciences, Czech Republic). Independence and coordination skills are demonstrated by her activities as supervisor of undergraduate and master students and supervision of PhD student. The diversity of topics addressed to date in her research career suggest that I am capable of tackling research questions from diverse interdisciplinary areas, strong independent thinking, leadership qualities through the involvement on research</p>
---	---

	<p>projects design (from planning to writing up) and the establishment of active collaborations. She has a strong background and knowledge acquired during this postdoctoral stay and during her PhD for developing this project in order to reach the objectives and goals proposed.</p> <p>Here, She wishes to apply for an Agreenskills fellowship because it would be a great opportunity to increase her research experience with internationally leading scientists and, considering that She has never had the chance to work in France, establish fruitful collaborations for the future with this country. More specifically, the fellowship will give her a unique opportunity of fostering exchanges with colleagues from Agreenium, a world leader on agriculture public research. Thus, it will substantially increase her independence as a researcher, improve her leadership qualities, and will be tremendously beneficial for her career. Also, She is greatly interested in receiving complementary scientific, technical and managing trainings required for professional maturity. Attending international meetings and workshops to present and discuss her results with top scientists will be a great opportunity to develop and strengthen her own international network of collaborations.</p> <p>On short and medium-terms, She expects this research project to lead to several publications in top-ranked journals to improve her career. These and side projects and collaborations will reinforce her publication record for applying for domestic grants (Spanish or French) and international programs (European Commission's next Framework Program). In addition, the present project will allow her to master up to date techniques on model systems. Skills and knowledge that She intends to gain through this fellowship deal with central topics such as mobilization of organic P, phytase-producing bacteria, nematofauna and functional soil ecology. Combined with her previous experience in plant nutrition, soil biochemistry and soil functionality, they will strengthen her prospects of a future leader researcher. On the long term, She wants to pursue her career on <b>soil biochemistry</b> and <b>functional soil ecology</b> under both biochemical, physiological and molecular approaches, to improve the efficient use of nutrients by microbes and crop biomass. Therefore, the Agreenskills fellowship constitutes an unquestionable opportunity to improve her skills and to acquire new scientific competences.</p>
--	--

**Education and training**

Location and dates	Granada (Spain)- <b>September 2011</b>
Title of qualification awarded	<b>PhD in Biology</b>
Principal subjects/occupational skills covered	<b>PhD thesis:</b> "Oxidative Stress and Other Responses Physiological Induced by Aqueous Extract from Dry Olive mill Residue (ADOR) Bioremediated by Saprobe Fungi in Tomato Plants ( <i>Solanum lycopersicum</i> , L)". Mark: Summa Cum Laudem. <b>Skills:</b> Soil Microbiology, Saprobe Fungi, Biochemistry (Enzymology), Bioremediation of residues, Biofertilizers and amendments applications, Arbuscular mycorrhizal fungi, and Plant Physiology.
Name of Institute	<b>Faculty of Sciences, University of Granada.</b>

Location and dates	Granada (Spain)- <b>June 2007</b>
Title of qualification awarded	<b>MSc in Agricultural Sciences and Aquaculture.</b>
Principal subjects/occupational skills covered	<b>Master thesis:</b> "Saprobe fungi decreased the sensitivity to the toxic effect of dry olive mill residue on arbuscular mycorrhizal plants". Mark: Summa. <b>Skills:</b> Arbuscular mycorrhizal fungi, Saprobe fungi, Bioremediation of residues, Biochemistry, Plant Physiology.

Name of Institute	<b>Faculty of Sciences, University of Granada.</b>
-------------------	--

Location and dates	Granada (Spain)- <b>June 2006</b>
Title of qualification awarded	<b>XLIII International course of soil science, soil fertility and biology vegetal</b>
Principal subjects/occupational skills covered	<u>Skills:</u> Pedology, Soil nutrients, Microbiology, Sysmbiosis, Plant Physiology and Biochemistry.
Name of Institute	<b>Estación Experimental del Zaidín and University of Granada.</b>

Location and dates	Granada (Spain)- <b>June 2006</b>
Title of qualification awarded	<b>Graduate studies in Agricultural Sciences</b>
Principal subjects/occupational skills covered	<u>Skills:</u> Soil symbiosis, Biofertilizers, Arbuscular mycorrhizal fungi, Soil ecology, Bioremediation, Saprobe fungi.
Name of Institute	<b>Faculty of Sciences, University of Granada.</b>

Location and dates	Granada (Spain)- <b>June 2005</b>
Title of qualification awarded	<b>Certificate of pedagogic aptitude</b>
Principal subjects/occupational skills covered	Teaching and pedagogic skills.
Name of Institute	<b>Faculty of Sciences, University of Granada.</b>

Location and dates	Granada (Spain)- <b>September 2004</b>
Title of qualification awarded	<b>BSc in Biology</b>
Principal subjects/occupational skills covered	<u>Skills:</u> Microbiology, Ecology of soil microorganisms, Bacteriology, Pedology, Botany Plant Physiology, Plant Nutrition, Biochemistry, Ecology, and Botany.
Name of Institute	<b>Faculty of Sciences, University of Granada.</b>

### Work experience

Location and dates	<b>Prague (Czech Republic), October 2015-present</b>
Occupation or position held	<b>Postdoctoral researcher</b>
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Soil microbial functionality, microbial biomass, microbial diversity, nutrients mobility often linked to products from bioenergy processes.</li> <li>- Soil Biochemistry and functional soil ecology.</li> <li>- Teaching activities</li> <li>- Supervising bachelor, master and PhD students.</li> </ul>
Name of employer	<b>Faculty of Agrobiolgy, Food and Natural Resources. Czech University of Life Sciences</b>

Location and dates	<b>Prague (Czech Republic), April 2013-September 2015</b>
Occupation or position held	<b>Postdoctoral research fellow from the Czech Government and European Union</b>
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Soil microbial enzymes, risk elements in soils and bioenergy products.</li> <li>- Teaching activities</li> <li>- International meetings</li> </ul>
Name of employer	<b>Faculty of Agrobiology, Food and Natural Resources. Czech University of Life Sciences</b>

Location and dates	Guadix (Granada, Spain), <b>November 2012-January 2013</b>
Occupation or position held	<b>Postdoctoral researcher</b>
Main activities and responsibilities	<ul style="list-style-type: none"> <li>- Department of innovation and technology.</li> <li>- Organic and forestry wastes microbiology.</li> </ul>
Name of employer	<b>Micelios del Sur, S.L.</b>

Location and dates	Granada (Spain), <b>July 2010-December 2011</b>
Occupation or position held	<b>PhD student</b>
Main activities and responsibilities	Analysis of the biological transformation of a residue by soil saprobe fungi and their impact on physiology of arbuscular mycorrhizal tomato plants.
Name of employer	<b>Spanish National Research Council (CSIC).</b>

Location and dates	Bari (Italy), <b>February-June 2010</b>
Occupation or position held	<b>PhD student</b>
Main activities and responsibilities	Analysis of the biological transformation of a residue by soil saprobe fungi on plant physiology of tomato plants.
Name of employer	<b>Spanish National Research Council (CSIC).</b>

Location and dates	Granada (Spain), <b>July 2008-January 2010</b>
Occupation or position held	<b>PhD student</b>
Main activities and responsibilities	Analysis of the biological transformation of a residue by soil saprobe fungi on plant physiology of tomato plants.
Name of employer	<b>Spanish National Research Council (CSIC).</b>

Location and dates	Badajoz (Spain), <b>February-June 2008</b>
Occupation or position held	<b>PhD student</b>
Main activities and responsibilities	Analysis of the biological transformation of a residue by soil saprobe fungi on tomato seedlings.
Name of employer	<b>Spanish National Research Council (CSIC).</b>

Location and dates	Granada (Spain), <b>January 2007-January 2008</b>
Occupation or position held	<b>PhD student</b>

Main activities and responsibilities	Analysis of the biological transformation of a residue by soil saprobe fungi on tomato seedlings.
Name of employer	Spanish National Research Council (CSIC).

#### Languages

Mother tongue(s)	Spanish				
Other language(s)	<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Italian	B2	B2	B1	B1	B1
(*) Common European Framework of Reference for Languages <a href="http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr">http://europass.cedefop.europa.eu/en/resources/european-language-levels-cefr</a>					

#### Academic Record

Publications	<p><b>Accepted, in press and published articles / papers:</b></p> <ol style="list-style-type: none"> <li>Hovorka M., Szákova J., <b>García-Sánchez M.</b>, Blanc Acebal M., García-Romera I., Tlustos P. 2016. Risk element sorption/desorption characteristics of dry olive residue: a technique for the potential immobilization of risk elements in contaminated soils. <i>Environmental Science and Pollution Research</i>. <a href="http://dx.DOI 10.1007/s11356-016-7488-1">http://dx.DOI 10.1007/s11356-016-7488-1</a>.</li> <li><b>García-Sánchez M.</b>, Holeckova Z., Klouza M., Tlustos P., Szákova J. 2016. Organic and inorganic amendment application on mercury-polluted soils: Effects on soil chemical and biochemical properties. <i>Environmental Science and Pollution Research</i>. 23:14254-14268. <a href="http://dx.DOI 10.1007/s11356-016-6591-7">http://dx.DOI 10.1007/s11356-016-6591-7</a>.</li> <li>Szákova J., Burešová A., Praus L., <b>García-Sánchez M.</b>, Holečková Z., Gabriel J., Sysalová J., Červenka R., Komárek J., Grohová S., Tlustoš P. 2016. The response of mercury (Hg) transformation in soil to sulfur and sulfur-rich biowaste application. <i>Environmental Earth Sciences</i>. 75: 584. <a href="http://dx.DOI 10.1007/s12665-016-5387-x">http://dx.DOI 10.1007/s12665-016-5387-x</a>.</li> <li><b>García-Sánchez M.</b>, Siles JA, Cajthaml T, García-Romera, Tlustos P, Szákova J. <b>2015</b>. Feasibility in the use of digestate and fly ash as amendments: effects on soil functionality and microbial parameters. <i>European Journal of Soil Biology</i>, 71: 1-12.</li> <li><b>García-Sánchez M.</b>, García-Romera I, Cajthaml T, Tlustos P, Szákova J. <b>2015</b>. Changes on soil microbial community functionality and structure of metal polluted site: effect of different digestate and fly-ash application. <i>Journal of the Environmental Management</i>. <a href="http://dx.doi.org/10.1016/j.jenvman.2015.07.042">http://dx.doi.org/10.1016/j.jenvman.2015.07.042</a>.</li> <li><b>García-Sánchez M.</b>, García-Romera I., Szákova J., Kaplan L., Tlustos P. <b>2015</b>. The effectivity of various amendments to reduce the mobility of risk elements in multicontaminated soils. <i>Environmental Sciences and Pollution Research</i> <a href="http://dx.DOI 10.1007/s11356-015-4678-1">http://dx.DOI 10.1007/s11356-015-4678-1</a>.</li> <li><b>García-Sánchez M.</b>, Spikova A., Szákova J., Kaplan L., Ohecová P., Tlustos P. <b>2014</b>. Applications of organic and inorganic amendments induce changes in the mobility of mercury and macro-and micronutrients of soils. <i>The Scientific World Journal (Soil Science: Impact of Land Use Change on Soil Properties and Processes)</i> <a href="http://dx.doi.org/10.1155/2014/407049">http://dx.doi.org/10.1155/2014/407049</a>.</li> <li><b>García-Sánchez M.</b>, Palma-Martínez J.M., García-Romera I., Aranda E. <b>2014</b>. Arbuscular mycorrhizal symbiosis alleviates the oxidative stress induced by ADOR and enhancement the antioxidant response of tomato plants (<i>Solanum lycopersicum</i> L.). <i>Journal of Plant Physiology</i> 171: 421 – 428.</li> <li><b>García-Sánchez M.</b>, Paradiso, A., García-Romera, I., Aranda, E., de Pinto, M.C. <b>2014</b>. Bioremediation of aqueous extract from dry olive mill residue removes inhibition of growth induced by this waste in tomato plants. <i>International Journal of Environmental Science and Technology</i> 11 (1): 21-32.</li> <li><b>Garrido I.</b>, <b>García-Sánchez M.</b>, Casimiro I., Casero P.J., García-Romera I., Ocampo J.A., Espinosa F. <b>2012</b>. Oxidative stress induced in sunflower seedling roots by aqueous dry olive mill-residue. <i>PLoS ONE</i> 7(9): e46137. doi:10.1371/journal.pone.0046137.</li> </ol>
--------------	--

	<ol style="list-style-type: none"> <li>11. <b>García-Sánchez, M., Garrido, I., Casimiro, I., Casero, P.J., García-Romera I., Espinosa, F., Aranda, E. 2012.</b> Defence response of tomato seedlings to oxidative stress induced by phenolic compounds from dry olive mill residue. <i>Chemosphere</i> 89: 708-716.</li> <li>12. <b>Aranda E., Sampedro I., García-Sánchez M., Reina, R., Arriagada, C., García-Romera I., Ocampo J.A. 2012.</b> Reduced dry olive mill residue phytotoxicity in the field caused by the combination of physical and biological treatments. <i>Journal of Soil Science and Plant Nutrition</i> 12(4):631-635.</li> <li>13. <b>Arriagada, C., García-Sánchez, M., Díaz, R., Sampedro, I., Aranda, E., García-Romera, I., Ocampo, J.A. 2012.</b> Suppressive effect of olive residue and saprophytic fungi on the growth of <i>Verticillium dahliae</i> and its effect on the dry weight of tomato (<i>Solanum lycopersicum</i>, L). <i>Journal of Soil Science and Plant Nutrition</i> 12 (2): 307-317.</li> <li>14. <b>García M., Arriagada C., García-Romera, I., Ocampo, J.A. 2011.</b> Are plant cell wall hydrolysing enzymes of saprobe fungi implicated in the biological control of the <i>Verticillium dahliae</i> pathogenesis? <i>Crop Protection</i> 30: 85-87.</li> <li>15. <b>Aranda E., Sampedro I., Díaz R., García-Sánchez M., Siles J.A., Ocampo J.A., García-Romera I. 2010.</b> Dry matter and root colonization of plants by indigenous arbuscular mycorrhizal fungi with physical fractions of dry olive mill residue inoculated with saprophytic fungi. <i>Spanish Journal of Agricultural Research</i> 81(S1): 79-85.</li> <li>16. <b>Aranda E., Sampedro I., Díaz R., García-Sánchez M., Arriagada, C.A., Ocampo J.A., García-Romera I. 2009.</b> The effects of the arbuscular mycorrhizal fungus <i>Glomus deserticola</i> on growth of tomato plants grown in the presence of olive mill residues modified by treatment with saprophytic fungi. <i>Symbiosis</i> 47: 133-140.</li> <li>17. <b>Sampedro I., Aranda E., Díaz R., García-Sánchez M., Ocampo J.A., García-Romera I. 2008.</b> Saprobe fungi decreased the sensitivity to the toxic effect of dry olive mill residue on arbuscular mycorrhizal plants. <i>Chemosphere</i> 70: 1383-1389.</li> <li>18. <b>Aranda E., Sampedro I., Díaz R., García M., Ocampo J.A., García-Romera I. 2007.</b> Xyloglucanases in the interaction between saprobe fungi and the arbuscular mycorrhizal fungus <i>Glomus mosseae</i>. <i>Journal of Plant Physiology</i> 164: 1019-1027.</li> </ol>
<p>Authored books or book chapter(s)</p>	<p><b><u>Full books</u></b></p> <ol style="list-style-type: none"> <li>1. <b>García-Sánchez M. 2013.</b> Oxidative Stress and Other Responses Physiological Induced by Aqueous Extract from Dry Olive mill Residue (ADOR) Bioremediated by Saprobe Fungi in Tomato Plants (<i>Solanum lycopersicum</i>, L). University of Granada (Ed), Granada (Spain). Vol. 1: 1-261. ISBN: 978-84-9028-018-8.</li> </ol> <p><b><u>Books chapters</u></b></p> <ol style="list-style-type: none"> <li>1. <b>García-Sánchez M., Száková, J. 2016.</b> Biological remediation of environments polluted by mercury Plant Metal Interaction: Emerging remediation techniques. Parvaiz Ahmad (Ed), Elsevier. Vol 1: 307-330. ISBN: 978-0-12-803158-2.</li> <li>2. <b>García-Sánchez M., García-Romera I., Ocampo J.A., Aranda E. 2015.</b> Physiological responses of mycorrhizal symbiosis to soil pollutants. Plant Environment Interaction: Responses and Approaches to Mitigate Stress. In: Mohamed Mahgoub Azooz, and Parvaiz Ahmad (Eds), Wiley-Blackwell. Vol 1: 214-233. ISBN: 978-1-119-08099-2.</li> <li>3. <b>García M., Morales-Vela G., García-Garrido J.M., García-Romera I., Ocampo J.A. 2008.</b> Enzymes implicated in the formation and development of arbuscular symbiosis. Topics about diversity and biotechnology of microscopic fungi. In: G. Heredia (Ed), Program Latin American of Science and Technology to Development. (CYTED) and Ecology Institute, A.C. Xalapa, Ver. México. Vol. 1: 230-248. ISBN: 970-709-104-5</li> <li>4. <b>Aranda E., Sampedro I., Díaz R., García M., Ocampo J.A., García-Romera I. 2008.</b> Transformation of residues from olive oil extraction by strains fungal. Topics about diversity and biotechnology of microscopic fungi. In: G. Heredia (Ed), Program Latin American of Science and Technology to Development. (CYTED) and Ecology Institute, A.C. Xalapa, Ver. México. Vol. 1: 299-317. ISBN: 970-709-104-5</li> </ol>

Participation in open calls for proposals as contributor or leader	Participation in the FP7 Call for Proposals: FP7-PEOPLE-2012-IEF (Proposal No. 329259).
Graduate teaching as lecturer or training coordinator	<ol style="list-style-type: none"> <li>1. Teaching on the theme: "Biological indicators in monitoring soil health contaminated with heavy metals". <b>Place:</b> University of Hradec Kralové (Czech Republic). <b>Date:</b> 12<sup>th</sup> December 2013.</li> <li>2. Teaching on the theme: "Soil microorganism as useful tools for the assessment of soil health". <b>Place:</b> Masaryk University, Brno (Czech Republic). <b>Date:</b> 30<sup>th</sup> October 2014.</li> <li>3. Teaching on the theme: "Bioremediation of soil pollutants - an overview". <b>Place:</b> Masaryk University, Brno (Czech Republic). <b>Date:</b> 11<sup>th</sup> December 2014.</li> <li>4. Teaching on the theme: "Soil microorganism as useful tools for the assessment of soil health". <b>Place:</b> Mendel University, Brno (Czech Republic). <b>Date:</b> 28<sup>th</sup> May 2015.</li> </ol>
Awards and prizes, if any	Poster Awarded in the XVI International Biodeterioration and Biodegradation Symposium, Lodz (Poland), 2014: " <b>García-Sánchez M.</b> , Sipkova A., Száková J., Kaplan L., Tlustos P. Digestate as an effective agent for mercury bioremediation".

#### Collaboration and Networking

Participation in collaborative projects funded by competitive programmes	<ol style="list-style-type: none"> <li>1. <b>Production of rot-white mushroom using bioenergy and forestry residues.</b> Financial entity: Czech Government. Duration: 2015-2017. Project leader: Prof. Ing. Pavel Tlustos, Csc.</li> <li>2. <b>Resource preservation by Application of BIOEFFECTORS in European Crop Production.</b> Financial entity: European Union; Duration: 2012-2017. Project leader: Dr. Torster Müller.</li> <li>3. <b>Biotransformation of agro industrial residues by ligninolytic agarycomicetes fungi to produce an organic fertilizer and extracellular enzymes.</b> Financial entity: MEC Program of integrated action DE2009-0081 Duration: 2010 to 2012; Project leader: Inmaculada García-Romera.</li> <li>4. <b>Biodegrading of PAHs by mycorrhizal and saprobe fungi.</b> Financial entity: Autonomic Government (Junta de Andalucía) Duration: 2010 to 2013; Project leader: Inmaculada García-Romera.</li> <li>5. <b>Impact of dry olive oil residue bioremediated by saprobe fungi producers of laccase in growth of plants and quality of soil.</b> Financial entity: Ministry of Science and Technology of Spanish government (AGL2008-00572) Duration: 2009 to 2011; Project leader: Inmaculada García-Romera.</li> <li>6. <b>Bioremediation of dry olive oil residue by hydrolytic and ligninolytic enzymes produced or induced by saprobe and mycorrhizal fungi and their use as a fertilizer.</b> Financial entity: Ministry of Science and Technology of Spanish government (AGL2004-00036AGR) Duration: 2005 to 2008; Project leader: Inmaculada García Romera.</li> </ol>
Partnerships or experience with industry	<ol style="list-style-type: none"> <li>1. Sampedro, I., Aranda, E., Díaz, R., Siles, J.A., <b>García-Sánchez, M.</b>, García-Romera, I., Ocampo, J.A. Increase production of <i>Coriolopsis rigida</i> laccase as a biologic inductor. REFERENCE NUMBER OF PUBLICATION: ES2365430. APPLICATION NUMBER: 201030417. DATE OF SUBMISSION: 23.03.2010. DATE OF AWARD: 14.01.2013. PRIORITY COUNTRY: España. HOLDER ENTITY: CSIC. ACCEPT.</li> </ol>
Graduate teaching as lecturer or training coordinator; PhD supervision	<ol style="list-style-type: none"> <li>1. <b>Master thesis:</b> "Evaluation of different types of vermicompost by the assessment of microbial enzymatic activities". <b>Student:</b> Hana Tausnerova. <b>University:</b> Czech University of Life Sciences (Prague, Czech Republic). <b>Date:</b> May 2015.</li> <li>2. <b>Final bachelor project:</b> "Evaluation of metals sorption capacity of dry olive mill residue transformed by saprobe fungi". <b>Student:</b> Mercedes Blanc Acebal. <b>University:</b> Czech University of Life Sciences (Prague, Czech Republic) and University of Valencia. <b>Date:</b> June 2015.</li> <li>3. <b>Master thesis:</b> "Mobility of nutrients in a metal-polluted soils under different soil amendments applications". <b>Student:</b> Teresa Stejskalová. <b>University:</b> Czech University of Life Sciences (Prague, Czech Republic) (in elaboration)</li> </ol>

--	--

**Research management, Technology transfer, and Communication**

<p>Team management</p>	<p>She considers herself as a motivated and ambitious individual able to give timely and accurate advice, guidance, support and training to other team members. Thus, the research that she has conducted so far reflects her team management skills, leadership capacity, and ability to independent thinking and initiative. Specifically:</p> <ol style="list-style-type: none"> <li>1. She has strongly participated in the design of research projects, from planning to writing up. Moreover, She has also carried out projects on her own initiative. This illustrates her sense of initiative and independent thinking.</li> <li>2. During her PhD, She developed several techniques of biochemical and enzymatic determination unused in the laboratory. Recently, She has assisted Prof. Száková and Prof. Tlustoš (CULS-Prague) in both the organization and development of new lab for the Department, including techniques of soil microbial enzymes and soil biochemistry. These two examples illustrate her capacity to develop and create new tools for her research.</li> <li>3. When faced with new problems (which often happened due to the use of techniques and concepts from diverse fields), She always settled collaborations herself, which again reflect her project management and leadership skills.</li> <li>4. She has directly supervised 2 students (Bachelor and Master) and at this moment She is supervising a master and PhD students. She helped in the doctoral training of various lab-partners (a very rewarding experience), which markedly also helped her to develop her leadership skills.</li> </ol>
<p>Technological platform management</p>	<p>After finishing her PhD dissertation, She got a position for a private company in the Department of innovation and Technology. This company was focused on the elaboration of a substrate for growing edible mushrooms (<i>Pleurotus ostreatus</i>). This type of agricultural practice is being increasing during the last years, but there are not many companies involved in this activity in Spain. Before of its real application, this technology was developed by the University of Granada, but only at lab-scale. When She started to work for this company, her tasks were focused on monitoring microbiological changes during the aerobic fermentation of organic and forestry residues in order to develop an optimal substrate for growing edible mushrooms. Besides, She was also involved in the manufacturing process and inoculation of edible mushrooms, as well as other activities such as maturation of substrate before to be sold to farmers.</p>

<p><b>Other experience and skills relevant to the application</b></p>	<p><b>Occasional referee in SCI-journals:</b> PLoS ONE, Plant Physiology and Biochemistry, Acta Physiologica, Environmental Science and Pollution Research, European Journal of Soil Biology, Environmental Pollution, Journal of Hazardous material and Science of the Total Environment.</p> <p><b>Member of committee in:</b> PhD dissertation titled: "Soil Microbial response to biotransformed dry olive residue used as organic amendment". PhD student: Jose Antonio Siles Martos. Place: University of Granada (Granada, Spain). Date: 30<sup>th</sup> April 2014.</p> <p><b>Member of committee in:</b> Bachelor dissertation titled: "Nanoparticles as sorbents of metals/metalloids: implications for plant physiology". PhD student: Didac Barroso Bergadá. Place: Czech University of Life Sciences (Prague, Czech Republic). Date: 8<sup>th</sup> June 2015.</p> <p><b>External reviewer in:</b> PhD dissertation titled: "Effects of agroindustrial by-products on wood-dwelling Agaricomycetes: lignocellulolytic enzyme enhancement and residue transformation" (timeframe: 01.04-30.04.2016). International project proposal within the area of agricultural and environmental sciences. The corresponding funding institutions were Austrian Foundation (FWF-Elise Richter programme) (timeframe: 15.08-03.10-2016) and Estonian Research Council (timeframe: 8.09-30.09.2016).</p>
---	---



**Scientific References**

Full name	Inmaculada García Romera
Position	Tenured Scientific
Institution	Estación Experimental del Zaidin (CSIC) (Granada, Spain)
Email address	inmaculada.garcia@eez.csic.es

Full name	Elisabet Aranda Ballesteros
Position	Associate Researcher
Institution	University of Granada (Granada, Spain)
Email address	<a href="mailto:earanda@ugr.es">earanda@ugr.es</a>

Full name	Jiřina Száková
Position	Professor
Institution	Czech University of Life Sciences (Prague, Czech Republic)
Email address	szakova@af.czu.cz

**How did you hear about AgreenSkills programmes?**

	By a colleague's recommendation.
--	----------------------------------