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Dept. of Biotechnology and Plant Biology (ETSIAAB, UPM)



Qualifications	<ul style="list-style-type: none"> <li>- Bachelor in Science and Food Technology, Universidad de Valencia (UV) 2000</li> <li>- Bachelor in Biology, UV 2002</li> <li>- Master 's in Plant Biology, UV 2004</li> <li>- PhD Food Science &amp; Technology, UV 2007 (Doctorate Extraordinary Award)</li> </ul>
Employment	<ul style="list-style-type: none"> <li>- 2002-2006- FPI PhD Student. Plant Biology Dept. Faculty of Pharmacy. UV. SPAIN</li> <li>- 2007-2009- Postdoc Contract. Plant Biology Dept. Faculty of Science. University of Antwerpen. BELGIUM</li> <li>- 2010-2012- Postdoc Contract Juan de la Cierva MICINN. UPM, CBGP. SPAIN</li> <li>- 2013-2014- Postdoc Contract PLANT-KBBE European Project. UPM, CBGP. SPAIN</li> <li>- 2014-2019- Assistant lecturer (PAD). Dept. of Biotechnology and Plant Biology. ETSIAAB, CBGP, UPM. SPAIN.</li> <li>- 2019- Associate Professor (PCD I3) Biochemical and Molecular Biology. Dept. of Biotechnology and Plant Biology. ETSIAAB. SPAIN</li> </ul>
5 Selected publications  h18	<ul style="list-style-type: none"> <li>- <b>E Miedes</b>, A Molina, L Bacete, T Rodríguez, H Mérida, N Denancé, et al. (2021) Arabidopsis cell wall composition determines disease resistance specificity and fitness. Proceedings of the National Academy of Sciences 118 (5).</li> <li>- M Carriquí, M Nadal, MJ Clemente-Moreno, J Gago, <b>E Miedes</b>, J Flexas (2020). Cell wall composition strongly influences mesophyll conductance in gymnosperms. The Plant Journal 103 (4), 1372-1385.</li> <li>- L Bacete, H Mérida, <b>E Miedes</b>, A Molina. (2018). Plant cell wall-mediated immunity: cell wall changes trigger disease resistance responses. The Plant Journal 93 (4), 614-636.</li> <li>- L Bacete, H Mérida, S Pattathil, MG Hahn, A Molina, <b>E Miedes</b>. (2017). Characterization of plant cell wall damage-associated molecular patterns regulating immune responses. Plant Pattern Recognition Receptors: Methods and Protocols, 13-23.</li> <li>- <b>E Miedes</b>, R Vanholme, W Boerjan, A Molina. (2014). The role of the secondary cell wall in plant resistance to pathogens. Frontiers in Plant Science 5, 358. Cites: 290</li> </ul>
Patents	<ul style="list-style-type: none"> <li>- Molina, A., Jordá, L., Sánchez-Rodríguez, C., Sopeña, S., López, G., <b>Miedes, E.</b>, Sánchez-Vallet, A., Escudero, V. Method for increasing pathogen resistance in plants. PCT/EP2013/077076. 24 06 2014. WO 2014/095990 A1. International priority 18 12 2012. UPM. License to a Plant Response Biotech y BASF.</li> </ul>
Peer review	Plant Science, Journal of Plant Physiology, Frontiers in Plant Science, ...
Other appointments	<ul style="list-style-type: none"> <li>- Educational Innovation Project (2018), ETSIAAB, UPM.</li> <li>- Supervisor of 6 TFG, 2 TFM and 2 PhD thesis (<i>Cum Laude and Doctorate Award</i>)</li> <li>- More than 25 SCI papers and scientific publications.</li> <li>- Research stays: Santiago de Compostela University, SPAIN (6 months), Osaka City University, JAPAN (3 months), Complex Carbohydrate Research Center, GA, EEUU (2 months).</li> <li>- IP Research group: "The Cell Wall as a regulator of abiotic stresses"</li> </ul>