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

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- Bachelor in Science and Food Technology, Universidad de Valencia (UV) 2000
- Bachelor in Biology, UV 2002
- Master´s (DEA) in Plant Biology, UV 2004
- PhD Food Science & Technology, UV 2007 (*Summa Cum Laude* and Doctorate Extraordinary Award)

- 2002---2006 - FPI PhD Student. Plant Biology Dept. Faculty of Pharmacy. UV. SPAIN
- 2007---2009 - Postdoc Contract. Plant Biology Dept. Faculty of Science. Antwerpen University. BELGIUM
- 2010---2012- Postdoc Contract Juan de la Cierva MICINN. UPM, CBGP (CSIC-UPM). SPAIN
- 2013---2014 - Postdoc Contract PLANT---KBBE European Project. UPM, CBGP (CSIC-UPM). SPAIN
- 2014---2019 - Assistant lecturer (PAD). Dept. Biotechnology - Plant Biology. ETSIAAB, CBGP (CSIC- UPM). SPAIN.
- 2019- 2021 - Associate Professor (PCD I3). Biochemical and Molecular Biology. Biotechnology - Plant Biology. ETSIAAB. SPAIN
- 2021- … - Associate Professor (Profesor Titular de Universidad). Biochemical and Molecular Biology. Dept. of Biotechnology and Plant Biology. ETSIAAB. SPAIN

- C Khoulali, JM Pastor, J Galeano, K Vissenberg, **E Miedes.** (2025). Cell Wall–Based Machine Learning Models to Predict Plant Growth Using Onion Epidermis. IJMS. 26 (7), 2946.
- **E Miedes**, A Molina, L Bacete, T Rodríguez, H Mélida, N Denancé, et al. (2021) Arabidopsis cell wall composition determines disease resistance specificity and fitness. PNAs 118 (5).
- L Bacete, H Mélida, **E Miedes**, A Molina. (2018). Plant cell wall mediated immunity: cell wall changes trigger disease resistance responses. The Plant Journal 93 (4), 614-636.
- L Bacete, H Mélida, S Pattathil, MG Hahn, A Molina, **E Miedes**. (2017). Characterization of plant cell wall damage---associated molecular patterns regulating immune responses. Plant Pattern Recognition Receptors: Methods and Protocols, 13-23.
- **E Miedes**, 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

Patent - Molina, A., Jordá, L., Sánchez Rodríguez, C., Sopeña, S., López, G., **Miedes, E**., 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.

- Educational Innovation Project (2018), ETSIAAB, UPM.
- Supervisor of 13 TFG, 4 TFM and 2 PhD thesis (*Cum Laude and Doctorate Award*)
- More than 25 SCI papers and scientific publications.
- Sexenios: 3; Quinquenios: 2; DOCENTIA: Excellent

Research stays: Santiago de Compostela University, SPAIN (6 months), Osaka City University, JAPAN (3 months), Complex Carbohydrate Research Center, GA, EEUU (2 months).

- IP Research group: “The Cell Wall as a regulator of abiotic stresses"