**Curso 2025/26 **

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| **Líneas de Investigación** |
| Base genética de la evolución adaptativaHomeostasis de iones metálicos durante la infección del huésped |
| **Proyectos de Investigación** |
| * PID2022-140187OB-I00. Reprogramación genética y del desarrollo en patógenos fúngicos durante su adaptación al huésped. Ministerio de Ciencia e Innovación (2022). Antonio Di Pietro y Manuel Sánchez López-Berges (Universidad de Córdoba). 01/09/2023 - 31/08/2026. 332.675,00 €. Investigador principal.
* ProyExcel\_00488. Characterization of fungal transcription factors regulating vascular wilt disease. Junta de Andalucía (2022). Manuel Sánchez López-Berges (Universidad de Córdoba). 01/01/2023 - 31/12/2025. 159.410,00 €. Investigador principal.
 |
| **Publicaciones** |
| * Palos-Fernández R, Aguilar-Pontes MA, Puebla-Planas G, Berger H, Studt-Reinhold L, Strauss J, Di Pietro A\*, López-Berges MS\* (2024). Copper acquisition is essential for plant colonization and virulence in a root-infecting vascular wilt fungus. PLoS Pathogens. DOI: 10.1371/journal.ppat.1012671.
* Handelman M, Meir Z, Shadkchan Y, Abo Kandil A, Amano O, Mariscal M, López-Berges MS, Osherov N\* (2024). Evolution of the pathogenic mold *Aspergillus fumigatus* on high copper levels identifies novel resistance genes. mSphere. DOI: 10.1128/msphere.00253-24.
* Navarro-Velasco GY, Di Pietro A\*, López-Berges MS\* (2023). Constitutive activation of TORC1 signalling attenuates virulence in the cross-kingdom fungal pathogen *Fusarium oxysporum*. Mol Plant Pathol (IF. 5.663). DOI: 10.1111/mpp.13292.
* Redkar A\*, Sabale M, Schudoma C, López-Berges MS (6/11), Di Pietro A(CA) (2022). Conserved secreted effectors contribute to endophytic growth and multihost plant compatibility in a vascular wilt fungus. Plant Cell (IF. 11.277). 34:3214-3232.
* López-Berges MS\* (1/12), Scheven MT, Hortschansky P, Brakhage AA\*, Haas H\* (2021). The bZIP Transcription Factor HapX Is Post-Translationally Regulated to Control Iron Homeostasis in *Aspergillus fumigatus*. Int J Mol Sci (IF. 5.924). 22:7739. doi: 10.3390/ijms22147739.
* Birštonas L, Dallemulle A, López-Berges MS (3/13), Gsaller F\* (2020). Multiplex Genetic Engineering Exploiting Pyrimidine Salvage Pathway-Based Endogenous Counterselectable Markers. mBio (IF. 7.867). 11:e00230-20.
* López-Berges MS\* (2020). ZafA-mediated regulation of zinc homeostasis is required for virulence in the plant pathogen *Fusarium oxysporum*. Mol Plant Pathol (IF. 5.663). 21:244-249.
* López-Díaz C, Rahjoo V, Sulyok M, Ghionna V, Martín-Vicente A, Capilla J, Di Pietro A\*, López-Berges MS\* (2018). Fusaric acid contributes to virulence of *Fusarium oxysporum* on plant and mammalian hosts. Mol Plant Pathol (IF. 4.379). 19:440-453.
* Masachis S, Segorbe D, Turrà, López-Berges MS (8/11), Di Pietro A\* (2016). A fungal pathogen secretes plant alkalinizing peptides to increase infection. Nat Microbiol (14.174). 1:16043.
* López-Berges MS, Pinar M, Abenza JF, Arst HN Jr, Peñalva MA\* (2016). The *Aspergillus nidulans* syntaxin PepA(Pep12) is regulated by two Sec1/Munc-18 proteins to mediate fusion events at early endosomes, late endosomes and vacuoles. Mol Microbiol (IF. 5.026). 99:199-216.
* López-Berges MS (1/10), Capilla J, Turrà D, Di Pietro A\* (2012). HapX-Mediated Iron Homeostasis Is Essential for Rhizosphere Competence and Virulence of the Soilborne Pathogen *Fusarium oxysporum*. Plant Cell (IF. 9.251). 24:3805-3822.
* López-Berges MS, Rispail N, Prados-Rosales RC, Di Pietro A\* (2010). A nitrogen response pathway regulates virulence functions in *Fusarium oxysporum* via the protein kinase TOR and the bZIP protein MeaB. Plant Cell (IF. 9.396). 22:2459-75.
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| **Otras Actividades Profesionales** |
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