**Curso 2025/26 **

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| **Líneas de Investigación** |
| Análisis genético-molecular de la patogénesis fúngica |
| **Proyectos de Investigación** |
| 1. PID2022-140187OB-I00. Genetic and developmental reprogramming of fungal pathogens during host adaptation (REPROFUN). **MICINN I+D+i**. 2021-2023. **350.000 €**. IP.
2. PDC2022-133749-I00. Genomics-assisted directed evolution-based development of microbial biocontrol consortia for the control of plant vascular wilt diseases (EVOBIOCONTROL). **MICINN Proyectos de Prueba de Concepto**. 2022-2024. **143.750** **€**. Principal Investigator.
3. TED2021-130262B-I00. Deciphering the molecular dialogue between fungal pathogens and rhizosphere microbes for improved biocontrol (RHIZOTALK). **MICINN Transición Ecológica y Digital**. 2022-2024. **316.250 €**. Principal Investigator.
4. PLEC2021-007777. Evolución dirigida de consorcios microbianos mejorados para el biocontrol de la Fusariosis vascular del Plátano de Canarias (EVOMICROBIA). **MICINN Líneas Estratégicas**. 2021-2025. Total **342.200 €,** **210.000 €** for applicant group. Coordinator and Principal Investigator.
5. P20\_00179. Mecanismos de adaptación celular y genética en el hongo patógeno *Fusarium oxysporum*: nuevas estrategias de control (FUSICONTROL). **Junta de Andalucía Excelencia**. 2021-2024. **100.000 €**. Principal Investigator.
6. PID2019-108045RB-I00. Cellular and genetic plasticity underpinning host adaptation in fungal pathogens (FUNGIPLAST). **MICINN I+D+i**. 2020-2023. **314.600 €**. Principal Investigator.
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| **Publicaciones** |
| 1. Palos-Fernández R, Aguilar-Pontes MV, 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 Pathog** 20:e1012671. <https://doi.org/10.1371/journal.ppat.1012671>.
2. Srivastava V, Patra K, Pai H, Aguilar-Pontes MV, Berasategui A, Kamble A, **Di Pietro A**, Redkar A (2024) Molecular dialogue during host manipulation by the vascular wilt fungus *Fusarium oxysporum*. **Annu Rev Phytopathol** 62:97-126. <https://doi.org/10.1146/annurev-phyto-021722-034823>. IF=10.2.
3. **Agrios' Plant Pathology**. Sixth Edition (2024) Oliver, R (ed) Hückelhoven R, del Ponte E, **Di Pietro A**. (co-eds) Academic Press Inc. ISBN 978-0-12-822429-8, 873 pp. <https://www.sciencedirect.com/book/9780128224298/agrios-plant-pathology>
4. Fernandes TR, Mariscal M, Serrano A, Segorbe D, Fernández-Acero T, Martín H, Turrà D, **Di Pietro A** (2023) Cytosolic pH controls fungal MAPK signaling and pathogenicity. **mBio** 4:e0028523. <https://doi.org/10.1128/mbio.00285-23>. IF=7.8.
5. Redkar A CA, Sabale M, Schudoma C, Zechmann B, Gupta YK, López-Berges MS, Venturini G, Gimenez-Ibanez S, Turrà D, Solano R, **Di Pietro A** (2022) Conserved secreted effectors contribute to endophytic growth and multi-host plant compatibility in a vascular wilt fungus. **Plant Cell** 34:3214-3232. <https://doi.org/10.1093/plcell/koac174>. IF=11.3.
6. Gámez-Arjona FM, Vitale S, Voxeur A, Dora S, Müller S, Sancho-Andrés G, Montesinos JC, **Di Pietro A**, Sánchez-Rodríguez C (2022) Impairment of the cellulose degradation machinery enhances fungal virulence but limits reproductive fitness. **Sci Adv** 8:eabl9734. <https://doi.org/10.1126/sciadv.abl9734>. IF=14.4.
7. Palmieri D, Vitale S, Lima G, **Di Pietro**, Turrà D(2020) A bacterial endophyte exploits chemotropism of a fungal pathogen for plant colonization. **Nat Commun** 11:5264. <https://doi.org/10.1038/s41467-020-18994-5>. IF=12.1.
8. Vitale S, **Di Pietro A**, Turrà D (2019) Autocrine pheromone signaling regulates community behaviour in a fungal pathogen. **Nat Microbiol** 4:1443-1449. <https://doi.org/10.1038/s41564-019-0456-z>. IF=15.5.
9. Masachis S, Segorbe D, Turrà D, Leon-Ruiz M, Fürst U, El Ghalid M, Leonard G, Richards TA, Felix G, **Di Pietro A** (2016) A fungal pathogen secretes plant alkalinizing peptides to increase infection. **Nat Microbiol** 1:16043. [https://doi.org/10.1038/nmicrobiol.2016](https://doi.org/10.1038/nmicrobiol.2016.43).43. IF= 14.2.
10. Turrà D, El Ghalid M, Rossi F, **Di Pietro A**(2015) Fungal pathogen uses sex pheromone receptor for chemotropic sensing of host plant signals. **Nature** 527:521-524. <https://doi.org/10.1038/nature15516>. IF= 38.1.
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| **Otras Actividades Profesionales** |
| Fellow of the American Academy of Microbiology (**AAM**) since 2016 |