Antonio Di Pietro. Born October 24, 1962. Nationality: Italian.
Research ID: K-9220-2014; Orcid: https://orcid.org/0000-0001-5930-5763

CURRENT POSITION

Full Professor
Department of Genetics, University of Córdoba, Spain

DEGREES

1990	Ph.D. Thesis in Biology, University of Basel, Switzerland
1987	Diploma (M.Sc.) in Biology, University of Basel, Switzerland

PREVIOUS POSITIONS

2007-11	Associate Professor of Genetics, University of Córdoba
2005-07	Assistant Professor of Genetics, University of Córdoba
2001-05	Junior Professor (Ramón y Cajal Program), University of Córdoba
2000/01	Visiting Scientist (5 months), Novozymes Biotech Inc., Davis, CA, USA
1998-2001	Research Associate/Lecturer in Genetics, University of Córdoba, Spain
1992-98	Postdoctoral Fellow, University of Córdoba, Spain
1991-92	Postdoctoral Fellow, Cornell University, USA
1988	Visiting Fellow (4 months), University of Bari, Italy
1987-90	PhD Student, University of Basel/Ciba-Geigy Ltd, Basel, Switzerland

HONORS AND AWARDS

2016	Elected Fellow of the American Academy of Microbiology
2013-17	Training Coordinator of European Marie Curie Research Training Network "Sensing and integration of signals governing cell polarity and tropism in fungi" (FUNGIBRAIN), composed by 9 research groups and 3 companies
2009-12	Coordinator of European ERA-NET Pathogenomics Research Network "Transcriptional networks controlling virulence in filamentous fungal pathogens (TRANSPAT), composed by 5 research groups and 2 companies
2006-09	Coordinator of European Marie Curie Research Training Network "MAP kinase cascades controlling virulence in fungi: from signals to pathogenicity response" (SIGNALPATH), composed by 8 research groups and 2 companies
2001	"Ramon y Cajal" Junior Professorship in Molecular Biology, Spanish Ministery of Education and Science
1994	Marie Curie Individual Fellowship from the European Commission
1992	Postdoctoral Fellowship from the Spanish Ministery of Education and Science
1991	Swiss National Science Foundation/Ciba-Geigy Foundation Postdoctoral Fellowship

SERVICE

2015-2023	Elected Member of the International Fungal Genetics Policy Committee
2013-2017	Secretary of the Filamentous Fungi and Yeast Division, Spanish Society of Microbiology
2016-present	Expert Project Evaluator H2020-MSCA-ITN-2016, LIFE Panel.
2011-present	Member of the Biotechnology Grant Evaluation Panel, Spanish Ministry of Innovation and Competitivity
2015-present	Member of External Expert Review Panel, French Evaluation Agency for Research and Higher Education (ANR)
2000-present	Project Evaluator for Research Funding Agencies (U.S. National Science Foundation, Spanish Agencia Nacional de Evaluación y Prospectiva (ANEP), German Deutsche Forschungsgemeinchaft (DFG), Canadian Research Council, French Agence Nationale de Recherche (ANR), British BBSRC, Dutch Council for Earth and Life Sciences, Austrian Science Fund, Israel Science Foundation,

Swiss Science Foundation, Czech Science Foundation, European Commission, Swiss Federal Institute of Technology Zurich, among others.

2008-10 Member of the Eukaryotic Division Committee, Society for General Microbiology, UK

EDITORIAL BOARDS

2017-present Editorial Board Member, *MBio*
2007-2017 Associate Editor, *Fungal Genetics and Biology*
2007-2012 Associate Editor, *Molecular Plant-Microbe Interactions*
2007-2012 Senior Editor, *Microbiological Research*
2003-2008 Associate Editor, *Molecular Plant Pathology*

SCIENTIFIC SOCIETIES:

since 1991 International Society of Molecular Plant-Microbe Interactions
since 2002 Spanish Society of Microbiology
since 2013 Spanish Society of Genetics

RECENT INVITED PRESENTATIONS

2019 Invited talk at the 29th Fungal Genetics Conference, Asilomar, CA, US.
2018 Invited talk at the EMBO at Basel Life Conference, Basel, Switzerland
2018 Invited keynote talk at the 14th European Fusarium Seminar, Vienna, Austria
2018 Invited plenary talk at the 14th European Conference on Fungal Genetics, Haifa, Israel
2017 Invited keynote talk at the 12th European Foundation for Plant Pathology Conference, Dunquerque, France
2016 Selected plenary talk at the EMBO Conference on "Experimental approaches to evolution and ecology using yeast and other model systems", Heidelberg, Germany
2016 Invited plenary talk at the Gordon Research Conference on Cellular and Molecular Fungal Biology, Holderness, US
2016 Invited plenary talk at the Royal Society Discussion Meeting: "*Tackling emerging fungal threats to animal health, food security and ecosystem resilience"*, London, UK

FULL LIST OF PUBLICATIONS

1. Fernandes TR, Sánchez Salvador E, Tapia ÁG, Di Pietro A (2021) Dual-specificity protein phosphatase Msg5 controls cell wall integrity and virulence in *Fusarium oxysporum*. **Fungal Genet Biol** 146:103486.
2. Palmieri D, Vitale S, Lima G, **Di Pietro A**, Turrà D (2020) A bacterial endophyte exploits chemotropism of a fungal pathogen for plant colonization. **Nat Commun** 11:5264.
3. Reinhardt D, Roux C, Corradi N, **Di Pietro A** (2020) Lineage-specific genes and cryptic sex: parallels and differences between arbuscular mycorrhizal fungi and fungal pathogens. **Trends Plant Sci** 26:111-123.
4. Moreno-Ruiz D, Lichius A, Turrà D, Di Pietro A, Zeilinger S (2020) Chemotropism assays for plant symbiosis and mycoparasitism related compound screening in *Trichoderma atroviride*. **Front Microbiol** 11:601251.
5. Partida-Hanon A, Maestro-López M, Vitale S, Turrà D, Di Pietro A, Martínez-del Pozo A, Bruix M (2020) Structure of fungal α mating pheromone in membrane mimetics suggests a possible role for regulation at the water-membrane interface. **Front Microbiol** 11:1090.
6. Zhang Y, Yang H, Turra D, Zhou S, Ayhan DH, DeIulio GA, Guo L, Broz K, Wiederhold N, Coleman JJ, Donnell KO, Youngster I, McAdam AJ, Savinov S, Shea T, Young S, Zeng Q, Rep M, Pearlman E, Schwartz DC, Di Pietro A, Kistler HC, Ma LJ (2020) The genome of opportunistic fungal pathogen *Fusarium oxysporum* carries a unique set of lineage-specific chromosomes. **Commun Biol** 3:50.

7. Götz R, Panzer S, Trinks N, Eilts J, Wagener J, Turrà D, Di Pietro A, Sauer M, Terpitz U (2020) Expansion microscopy for cell biology analysis in fungi. **Front Microbiol** 11:574.
8. Frantzeskakis L, **Di Pietro A**, Rep M, Schirawski J, Wu CH, Panstruga R (2020) Rapid evolution in plant-microbe interactions - a molecular genomics perspective. **New Phytol** 225:1134-1142.
9. Vitale S, **Di Pietro A**, Turrà D (2019) Autocrine pheromone signalling regulates community behaviour in the fungal pathogen *Fusarium oxysporum*. Nat Microbiol 4:1443-1449.
10. Nordzieke DE, Fernandes TR, El Ghalid M, Turrà D, **Di Pietro A** (2019) NADPH oxidase regulates chemotropic growth of the fungal pathogen *Fusarium oxysporum* towards the host plant. New Phytol 224:1600-1612.
11. Mulero-Aparicio A, Cernava T, Turrà D, Schaefer A, **Di Pietro A**, López-Escudero FJ, Trapero A, Berg G (2019) The role of volatile organic compounds and rhizosphere competence in mode of action of the non-pathogenic *Fusarium oxysporum* FO12 toward Verticillium wilt. Front Microbiol 10:1808.
12. Sabale M, **Di Pietro A**, Redkar A (2019) A conserved microbial motif 'traps' protease activation in host immunity. Trends Plant Sci 24:665-667.
13. Redkar A, **Di Pietro A** (2018) Adapt your shuttling proteins for virulence: a lesson from the corn smut fungus *Ustilago maydis*. New Phytol 220:353-356.
14. Ayhan DH, López-Díaz C, **Di Pietro A**, Ma LJ (2018) Improved assembly of reference genome *Fusarium oxysporum* f. sp. *lycopersici* strain Fol4287. Microbiol Resour Announc 7:e00910-18.
15. Patiño B, Vázquez C, Manning JM, Roncero MIG, Córdoba-Cañero D, **Di Pietro A**, Martínez-Del-Pozo Á (2018) Characterization of a novel cysteine-rich antifungal protein from *Fusarium graminearum* with activity against maize fungal pathogens. Int J Food Microbiol 283:45-51.
16. 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 19:440-453.
17. Kurian SM, **Di Pietro A**, Read ND (2018) Live-cell imaging of conidial anastomosis tube fusion during colony initiation in *Fusarium oxysporum*. PLoS One 13:e0195634.
18. Di Pietro A, **Talbot NJ** (2017) Fungal pathogenesis: Combatting the oxidative burst. Nat Microbiol: 2:17095.
19. Fernandes TR, Segorbe D, Prusky D, **Di Pietro A** (2017) How alkalinization drives fungal pathogenicity. PLoS Pathog 13:e1006621.
20. Bravo-Ruiz G, Sassi AH, Marcet-Houben M, **Di Pietro A**, Gargouri A, Gabaldon T, Roncero MIG (2017) Regulatory mechanisms of a highly pectinolytic mutant of *Penicillium occitanis* and functional analysis of a candidate gene in the plant pathogen *Fusarium oxysporum*. Front Microbiol 8:1627.
21. Brown AJP, Cowen LE, **Di Pietro A**, Quinn J (2017) Stress Adaptation. Microbiol Spectr. 5: doi: 10.1128/microbiolspec.FUNK-0048-2016.
22. Segorbe D, **Di Pietro A**, Pérez-Nadales E, Turrà D (2017) Three *Fusarium oxysporum* mitogen-activated protein kinases (MAPKs) have distinct and complementary roles in stress adaptation and cross-kingdom pathogenicity. Mol Plant Pathol 18:912-924.
23. Turrà D, Nordzieke D, Vitale S, El Ghalid M, **Di Pietro A**. (2016) Hyphal chemotropism in fungal pathogenicity. Semin Cell Dev Biol 57:69-75.
24. Vitale S, Partida-Hanon A, Serrano S, Martínez-Del-Pozo Á, **Di Pietro A**, Turrà D, Bruix M (2017) Structure-activity relationship of α mating pheromone from the fungal pathogen *Fusarium oxysporum*. J Biol Chem 292:3591-3602.
25. Dracatos PM, Payne J, **Di Pietro A**, Anderson MA, Plummer KM (2016) Plant defensins NaD1 and NaD2 induce different stress response pathways in fungi. Int J Mol Sci 17: E1473.
26. Masachis S, Segorbe D, Turrà D, Leon-Ruiz M, Fürst U, El Ghalid M, Leonard G, López-Berges, MS, Richards TA, Felix G, **Di Pietro A** (2016) A fungal pathogen secretes plant alkalinizing peptides to increase infection. Nat Microbiol 1:16043. *Highlighted in:* Nat

Microbiol News & Views (doi: 10.1038/nmicrobiol.2016.75) and in Nat Plant (doi: 10.1038/nplants.2016.67).
27. 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 doi: 10.1038/nature15516.
28. Lo Presti L, López Díaz C, Turrà D, **Di Pietro A**, Hampel M, Heimel K, Kahmann R (2015) A conserved co-chaperone is required for virulence in fungal plant pathogens. New Phytol 209:1135-1148.
29. Tarazona S, Furio-Tari P, Turrà D, **Di Pietro A**, Nueda MJ, Ferrer A, Conesa A (2015) Data quality aware analysis of differential expression in RNA-seq with NOISeq R/Bioc package. Nucleic Acids Res 43:e140.
30. Turrà D, **Di Pietro A** (2015) Chemotropic sensing in fungus-plant interactions. Curr Opin Plant Biol 26:135-140.
31. Bravo Ruiz G, **Di Pietro A**, Roncero MI (2015) Combined action of the major secreted exo- and endopolygalacturonases is required for full virulence of *Fusarium oxysporum*. Mol Plant Pathol 17:339-353.
32. Corral-Ramos C, Roca MG, **Di Pietro A**, Roncero MIG, Ruiz-Roldán C (2015) Autophagy contributes to regulation of nuclear dynamics during vegetative growth and hyphal fusion in *Fusarium oxysporum*. Autophagy 11:131-144.
33. Pérez-Nadales E, **Di Pietro A** (2014) The transmembrane protein Sho1 cooperates with the mucin Msb2 to regulate invasive growth and plant infection in *Fusarium oxysporum.* Mol Plant Pathol 16:593-603.
34. Hou S, Wang X, Chen D, Yang X, Wang M, Turrà D, **Di Pietro A**, Zhang W (2014) The Secreted Peptide PIP1 Amplifies Immunity through Receptor-Like Kinase 7. PLOS Pathog 10:e1004331.
35. Turrà D, Segorbe D, **Di Pietro A** (2014) Protein kinases in plant pathogenic fungi: conserved regulators of infection. Annu Rev Phytopathol 52: 267-288.
36. Perez-Nadales E, Almeida Nogueira MF, Baldin C, Castanheira S, El Ghalid M, Grund E, Lengeler K, Marchegiani E, Mehrotra PV, Moretti M, Naik V, Oses-Ruiz M, Oskarsson T, Schäfer K, Wasserstrom L, Brakhage AA, Gow NA, Kahmann R, Lebrun MH, Perez-Martin J, **Di Pietro A**, Talbot NJ, Toquin V, Walther A, Wendland J (2014). Fungal model systems and the elucidation of pathogenicity determinants. Fungal Genet Biol 70C:42-67.
37. Schäfer K, Bain JM, **Di Pietro A**, Gow NAR, Erwig LP (2014). Hyphal growth of phagocytosed *Fusarium oxysporum* causes cell lysis and death of murine macrophages. PLOS One 9:e101999.
38. Schäfer K, **Di Pietro A**, Gow NAR, MacCallum D (2014). Murine model for *Fusarium oxysporum* invasive fusariosis reveals organ specific structures for dissemination and long-term persistence. PLOS One 9:e89920.
39. López-Berges M, Schäfer K, Hera C, **Di Pietro A** (2014) Combinatorial function of Velvet and AreA in transcriptional regulation of nitrate utilization and secondary metabolism. Fungal Genet Biol 62:78-84.
40. Leal SM Jr, Roy S, Vareechon C, Carrion SD, Clark H, Lopez-Berges MS, **Di Pietro A**, Schrettl M, Beckmann N, Redl B, Haas H, Pearlman E (2013) Targeting iron acquisition blocks infection with the fungal pathogens *Aspergillus fumigatus* and *Fusarium oxysporum*. PLOS Pathog 9:e1003436.
41. Schneiter R, **Di Pietro A** (2013) The CAP protein superfamily: function in sterol export and fungal virulence. Biomol Concepts 4:519-526.
42. Geiser DM, Aoki T, Bacon CW, Baker SE, Bhattacharyya MK, Brandt ME, Brown DW, Burgess LW, Chulze SN, Coleman JJ, Correll JC, Covert S, Crous PW, Cuomo CA, de Hoog GS, **Di Pietro A**, Elmer WH, Epstein L, Frandsen RJ, Freeman S, Gagkaeva T, Glenn AE, Gordon T, Gregory NF, Hammond-Kosack K, Hanson L, Jimenez-Gasco MD, Kang S, Kistler HC, Kuldau GA, Leslie JF, Logrieco A, Lü G, Lysøe E, Ma LJ, McCormick S, Migheli Q, Moretti A, Munaut F, O'Donnell K, Pfenning LH, Ploetz R, Proctor R, Rehner SA, Robert VA, Rooney AP, Salleh B, Scandiani MM, Scauflaire J, Short DP, Steenkamp E, Suga H, Summerell BA, Sutton DA, Thrane U, Trail F, van Diepeningen A, Vanetten H, Viljoen A, Waalwijk C, Ward T, Wingfield MJ, Xu JR, Yang

XB, Yli-Matilla T, Zhang N (2013) One Fungus, one Name: defining the genus Fusarium in a scientifically robust way that preserves longstanding use. Phytopathology 103:400-408.
43. López-Berges MS, Turrà D, Capilla J, Schafferer L, Matthijs S, Jöchl C, Cornelis P, Guarro J, Haas H, **Di Pietro A** (2013) Iron competition in fungus-plant interactions: The battle takes place in the rhizosphere. Plant Signal Behav 8:e23012.
44. López-Berges MS, Hera C, Sulyok M, Schäfer K, Capilla J, Guarro J, **Di Pietro A** (2013) The velvet complex governs mycotoxin production and virulence of *Fusarium oxysporum* on plant and mammalian hosts. Mol Microbiol 87:49-65.
45. López-Berges MS, Capilla J, Turrà D, Schafferer L, Matthijs S, Jöchl C, Cornelis P, Guarro J, Haas H, **Di Pietro A** (2012) HapX-mediated iron homeostasis is essential for rhizosphere competence and virulence of the soilborne pathogen *Fusarium oxysporum*. Plant Cell 24:3805-3822.
46. Prados-Rosales RC, Roldan-Rodriguez R, Serena C, Lopez-Berges MS, Guarro J, Martinez-Del-Pozo A, **Di Pietro A** (2012) A PR-1-like protein of *Fusarium oxysporum* functions in virulence on mammalian hosts. J Biol Chem 287:21970-21979.
47. Dean R, VAN Kan JA, Pretorius ZA, Hammond-Kosack KE, **DI Pietro A**, Spanu PD, Rudd JJ, Dickman M, Kahmann R, Ellis J, Foster GD (2012) The Top 10 fungal pathogens in molecular plant pathology. Mol Plant Pathol 13:414-430.
48. Pérez-Martín J, **Di Pietro A** (eds.) (2012) Morphogenesis and pathogenicity in fungi. Series: Topics in Current Genetics, Vol 22, Springer Verlag, Heidelberg, Berlin. 286 pp. ISBN: 978-3-642-22915-2.
49. Vitullo D, **Di Pietro A**, Romano A, Lanzotti V, Lima G (2011) Role of new bacterial surfactins in the antifungal interaction between *Bacillus amyloliquefaciens* and *Fusarium oxysporum*. Plant Pathol 61:689-699.
50. Navarro-Velasco GY, Prados-Rosales RC, Ortíz-Urquiza A, Quesada-Moraga E, **Di Pietro A** (2011) *Galleria mellonella* as model host for the trans-kingdom pathogen *Fusarium oxysporum*. Fungal Genet Biol 48:1124-1129.
51. Romano A, Vitullo D, **Di Pietro A**, Lima G, Lanzotti V (2011) Antifungal lipopeptides from *Bacillus amyloliquefaciens* strain BO7. J Nat Prod 74(2):145-151.
52. Pérez-Nadales E, **Di Pietro A** (2011) The membrane mucin Msb2 regulates invasive growth and plant infection in *Fusarium oxysporum*. Plant Cell 23:1171-1185.
53. López-Berges MS, Rispail N, Prados-Rosales RC, **Di Pietro A** (2010) A nitrogen response pathway regulates virulence in plant pathogenic fungi: role of TOR and the bZIP protein MeaB. Plant Signal Behav 5:1623-1625.
54. Hua X, Yuan X, **Di Pietro A**, Wilhelmus KR (2010) The molecular pathogenicity of Fusarium keratitis: a fungal transcriptional regulator promotes hyphal penetration of the cornea. Cornea 29:1440-1444.
55. 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 22: 2459-2475.
56. Rispail N, **Di Pietro A** (2010) The homeodomain transcription factor Ste12: Connecting fungal MAPK signalling to plant pathogenicity. Commun Integr Biol 3:327-332.
57. Ma LJ, van der Does C, Borkovich KA, Coleman JJ, Daboussi MJ, **Di Pietro A**, Dufresne M, Freitag M, Grabherr M, Henrissat B, Houterman PM, Kang S, Shim WB, Woloshuk C, Xie X, Xu JR, Antonxiw J, Baker SE, Bluhm BH, Breakspear A, Brown DW, Butchko RAE, Chapman S, Coulson R, Coutinho PM, Danchin EGJ, Diener A, Gale LR, Gardiner DM, Goff S, Hammond-Kosack KE, Hilburn K, Houterman PM, Hua-Van A, Jonkers W, Kazan K, Kodira CD, Koehrsen M, Kumar L, Lee YH, Li L, Manners JM, Miranda-Saavedra D, Mukherjee M, ParkG, Park J, Park SY, Proctor RH, Regev A, Ruiz-Roldan MC, Sain D, Sakthikumar S, SykesS, Schwartz DC, Turgeon BG, Wapinski I, Yoder O, Young S, Zeng Q, Zhou S, Galagan J, Cuomo CA, Kistler HC, Rep M (2010) Comparative genomics reveals mobile pathogenicity chromosomes in *Fusarium oxysporu*m. Nature 464: 367-373.

58. Ruiz-Roldán MC, Köhli M, Roncero MIG, Philippsen P, **Di Pietro A**, Espeso E (2010) Nuclear dynamics during germination, conidiation and hyphal fusion of *Fusarium oxysporum*. Eukaryot Cell 9: 1216 -1224.
59. Rispail N, **Di Pietro A** (2010) The two-component histidine kinase Fhk1 controls stress adaptation and virulence of *Fusarium oxysporum*. Mol Plant Pathol 11: 395-407.
60. Martín-Urdiroz M, Martínez-Rocha AL, **Di Pietro A**, Martínez del Pozo A, Roncero MIG (2009) Differential toxicity of antifungal protein AFP against mutants of *Fusarium oxysporum*. Int Microbiol 12: 115-121.
61. Rispail, N., **Di Pietro, A.** (2009) *Fusarium oxysporum* Ste12 controls invasive growth and virulence downstream of the Fmk1 MAPK cascade. Mol Plant-Microbe Interact 22: 830-839.
62. Prados-Rosales, R., Luque-García, J.L., Martínez-López, R., Gil, C., **Di Pietro, A.** (2009) The *Fusarium oxysporum* cell wall proteome under adhesion-inducing conditions. Proteomics 9: 4755-4769.
63. Rispail, N., Soanes, D.M., Ant, C., Czajkowski, R., Grünler, A., Huguet, R., Perez-Nadales, E., Poli, A., Sartorel, E., Valiante, V., Yang, M., Beffa, R., Brakhage, A.A., Gow, N.A.R., Kahmann, R., Lebrun, M.H., Lenasi, H., Perez-Martin, J., Talbot, N.J., Wendland, J., **Di Pietro, A.** (2009) Comparative genomics of MAP kinase and calcium-calcineurin signalling components in plant and human pathogenic fungi. Fungal Genet Biol 46:287-298.
64. Poli, A., **Di Pietro, A.,** Dusan, Z., Lenasi, H. (2009) Possible involvement of G-proteins and cAMP in the induction of progesterone hydroxylating enzyme system in the vascular wilt fungus *Fusarium oxysporum.* J Steroid Biochem Mol Biol 113:241-247.
65. Sánchez López-Berges M, **Di Pietro A,** Daboussi M.J, abdel Wahab H, Vasnier C, Roncero MIG, Dufresne M, Hera C (2009) Identification of virulence genes in *Fusarium oxysporum* f. sp. *lycopersici* by large-scale transposon tagging. Mol Plant Pathol 10:95-107.
66. **Di Pietro A,** Roncero MIG, Ruiz-Roldán MC (2009). From tools of survival to weapons of destruction: role of cell wall-degrading enzymes in plant infection. In: THE MYCOTA Plant relationships Vol. V. 2nd ed., Springer Verlag, Heidelberg, Berlin, pp. 181-200.
67. Martínez-Rocha AL, Roncero MIG, López-Ramirez A, Mariné M, Guarro J, Martínez-Cadena G, **Di Pietro A** (2008) Rho1 has distinct functions in morphogenesis, cell wall biosynthesis and virulence of *Fusarium oxysporum*. Cell Microbiol 10:1339-1351.
68. Martínez-Rocha AL, **Di Pietro A,** Ruiz-Roldán C, Roncero MIG (2008) Ctf1, a transcriptional activator of cutinase and lipase genes in *Fusarium oxysporum* is dispensable for virulence. Mol Plant Pathol 9:293-304.
69. Prados-Rosales, R.C., **Di Pietro, A.** (2008) Vegetative hyphal fusion is not essential for plant infection by *Fusarium oxysporum*. Eukaryot Cell 7:162-171.
70. Ruiz-Roldán, M.C., Puerto-Galán, L, Roa, J., Castro, A., **Di Pietro, A.**, Roncero, M.I.G., Hera, C. (2008) The *Fusarium oxysporum sti35 gene* functions in thiamine biosynthesis and oxidative stress response. Fungal Genet Biol 45:6-16.
71. Calero-Nieto, F., Hera, C., **Di Pietro, A.**, Orejas, M., Roncero, M.I.G. (2008) Regulatory elements mediating expression of xylanase genes in *Fusarium oxysporum.* Fungal Genet Biol 45:28-34.
72. Cuomo, C.A., Güldener U., Xu, J.-R., Trail, F., Turgeon, B.G., **Di Pietro, A.**, Walton, J.D., Baker, S.E., Rep, M., Adam, G., Baldwin, T., Calvo, S., Chang, Y.-L. DeCaprio, D., Gale, L., Gnerre, S., Goswami, R., Hammond-Kosack, K., Harris, L.J., Hilburn, K., Kennell, J., Kroken, S., Ma, L.-J., Magnuson, J.K., Mannhaupt, G., Mauceli, E., Mewes, H.-W., Mitterbauer, R., Muehlbauer, G., Münsterkötter, M., Nelson, M., O'Donnell, K., Ouellette, T., Qi, W., Quesneville, H., Roncero, M.I.G., Seong, K.-Y., Tetko, I., Urban, M., Waalwijk, C., Ward, T., Yao, J., Birren, B.W., Kistler, H.C. (2007) The *Fusarium graminearum* genome reveals a link between localized polymorphism and pathogen specialization. Science 317:1400-1402.
73. Calero-Nieto, F., **Di Pietro,A.**, Roncero, M.I.G., Hera, C. (2007) Role of the transcriptional activator XlnR of *Fusarium oxysporum* in regulation of xylanase genes and virulence. Mol Plant-Microbe Interact 20:977-985.

74. González-Verdejo, C.I., Dita, M.A., **Di Pietro, A.**, Moreno, M.T., Barandiarán, X., Rubiales, D., González-Melendi, P., Pérez-de-Luque, A. (2007) Identification and expression analysis of a MYB family transcription factor in the parasitic plant *Orobanche ramosa*. Ann Appl Biol 150:123-130.
75. Prados-Rosales, R.C., Serena, C., Delgado-Jarana, J., Guarro, J., **Di Pietro, A.** (2006) Distinct signalling pathways coordinately contribute to virulence of *Fusarium oxysporum* on mammalian hosts. Microbes Infect. 8:2825-2831.
76. González-Verdejo, C.I., Barandiarán, X., Moreno, M.T., Cubero, J.I., **Di Pietro, A**. (2006) A peroxidase gene expressed during early developmental stages of the parasitic plant *Orobanche ramosa.* J Exp Bot 57:185-192.
77. Caracuel, Z., Martínez-Rocha, A.L., **Di Pietro, A.**, Madrid, M.P., Roncero, M.I.G. (2005) Fusarium oxysporum *gas1* encodes a □-1,3-glucanosyltransferase required for virulence on tomato plants. Mol Plant-Microbe Interact 18:1140-47.
78. Divon, H.H., Rothan-Denoyes, B., Davydov, O., **Di Pietro, A.**, Fluhr, R. (2005) Nitrogen responsive genes are differentially regulated *in planta* during *Fusarium oxysporum* f.sp. *lycopersici* infection. Mol Plant Pathol 6:459-470.
79. González-Verdejo, C.I., Barandiarán, X., Moreno, M.T., Cubero, J.I., **Di Pietro, A.** (2005) An improved axenic system for studying pre-infection development of the parasitic plant *Orobanche ramosa.* Ann Bot (Lond) 96:1121-1127.
80. Delgado-Jarana J, Martinez-Rocha AL, Roldan-Rodriguez R, Roncero MI, **Di Pietro A.** (2005) *Fusarium oxysporum* G-protein beta subunit Fgb1 regulates hyphal growth, development, and virulence through multiple signalling pathways. Fungal Genet Biol 42:61-72.
81. Ortoneda, M., Guarro, J., Madrid, M., Caracuel, Z., Roncero, M.I.G., Mayayo, E., **Di Pietro, A.** (2004) *Fusarium oxysporum* as a multihost model for the genetic dissection of fungal virulence in plants and mammals. Infect Immun 72:1760-1766.
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