M. Isabel G. Roncero

List of Publications by Year
in descending order

67 papers	4,901 citations	109321 35 h-index	98798 67 g-index
67 all docs	67 docs citations	67 times ranked	4005 citing authors

#	Article	IF	Citations
1	The <i>Fusarium graminearum</i> Genome Reveals a Link Between Localized Polymorphism and Pathogen Specialization. Science, 2007, 317, 1400-1402.	12.6	837
2	A MAP kinase of the vascular wilt fungus <i>Fusarium oxysporum</i> is essential for root penetration and pathogenesis. Molecular Microbiology, 2001, 39, 1140-1152.	2.5	378
3	Fusarium oxysporum : exploring the molecular arsenal of a vascular wilt fungus. Molecular Plant Pathology, 2003, 4, 315-325.	4.2	360
4	Cloning, Expression, and Role in Pathogenicity of <i>pg1</i> Encoding the Major Extracellular Endopolygalacturonase of the Vascular Wilt Pathogen <i>Fusarium oxysporum</i>. Molecular Plant-Microbe Interactions, 1998, 11, 91-98.	2.6	268
5	The pH signalling transcription factor PacC controls virulence in the plant pathogen Fusarium oxysporum. Molecular Microbiology, 2003, 48, 765-779.	2.5	196
6	Fusarium oxysporum as a Multihost Model for the Genetic Dissection of Fungal Virulence in Plants and Mammals. Infection and Immunity, 2004, 72, 1760-1766.	2.2	164
7	Class V chitin synthase determines pathogenesis in the vascular wilt fungus Fusarium oxysporum and mediates resistance to plant defence compounds. Molecular Microbiology, 2003, 47, 257-266.	2.5	139
8	High frequency transformation of Mucor with recombinant plasmid DNA. Carlsberg Research Communications, 1984, 49, 691-702.	1.8	130
9	Fusarium as a model for studying virulence in soilborne plant pathogens. Physiological and Molecular Plant Pathology, 2003, 62, 87-98.	2.5	123
10	Characterization of a leuA gene and an ARS element from Mucor circinelloides. Gene, 1989, 84, 335-343.	2.2	114
11	Role in Pathogenesis of Two Endo-Î2-1,4-xylanase Genes from the Vascular Wilt Fungus Fusarium oxysporum. Fungal Genetics and Biology, 2002, 35, 213-222.	2.1	96
12	Role of the White Collar 1 Photoreceptor in Carotenogenesis, UV Resistance, Hydrophobicity, and Virulence of <i>Fusarium oxysporum</i>. Eukaryotic Cell, 2008, 7, 1227-1230.	3.4	91
13	Molecular Characterization of an Endopolygalacturonase from Fusarium oxysporum Expressed during Early Stages of Infection. Applied and Environmental Microbiology, 2001, 67, 2191-2196.	3.1	84
14	ChsVb, a Class VII Chitin Synthase Involved in Septation, Is Critical for Pathogenicity in <i>Fusarium oxysporum</i>. Eukaryotic Cell, 2008, 7, 112-121.	3.4	84
15	pH Response Transcription Factor PacC Controls Salt Stress Tolerance and Expression of the P-Type Na + -ATPase Ena1 in Fusarium oxysporum. Eukaryotic Cell, 2003, 2, 1246-1252.	3.4	76
16	Rho1 has distinct functions in morphogenesis, cell wall biosynthesis and virulence of Fusarium oxysporum. Cellular Microbiology, 2008, 10, 1339-1351.	2.1	75
17	Cloning and Disruption of pgx4 Encoding an In Planta Expressed Exopolygalacturonase from Fusarium oxysporum. Molecular Plant-Microbe Interactions, 2000, 13, 359-365.	2.6	73
18	Role of the Transcriptional Activator XlnR of Fusarium oxysporum in Regulation of Xylanase Genes and Virulence. Molecular Plant-Microbe Interactions, 2007, 20, 977-985.	2.6	73

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19	Role of chitin synthase genes in Fusarium oxysporum. Microbiology (United Kingdom), 2004, 150, 3175-3187.	1.8	70
20	Tomatinase from <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> Is Required for Full Virulence on Tomato Plants. Molecular Plant-Microbe Interactions, 2008, 21, 728-736.	2.6	68
21	Enrichment method for the isolation of auxotrophic mutants of Mucor using the polyene antibiotic N-glycosyl-polifungin. Carlsberg Research Communications, 1984, 49, 685-690.	1.8	62
22	skippy, a retrotransposon from the fungal plant pathogen Fusarium oxysporum. Molecular Genetics and Genomics, 1995, 249, 637-647.	2.4	62
23	Molecular characterization of a novel endo-Î²-1,4-xylanase gene from the vascular wilt fungus Fusarium oxysporum. Current Genetics, 2001, 40, 268-275.	1.7	62
24	Fusarium oxysporum gas1 Encodes a Putative Î²-1, 3-Glucanosyltransferase Required for Virulence on Tomato Plants. Molecular Plant-Microbe Interactions, 2005, 18, 1140-1147.	2.6	62
25	G-protein ? subunit Fgb1 regulates hyphal growth, development, and virulence through multiple signalling pathways. Fungal Genetics and Biology, 2005, 42, 61-72.	2.1	61
26	Functional Analyses of Laccase Genes from <i>Fusarium oxysporum</i>. Phytopathology, 2008, 98, 509-518.	2.2	60
27	Nuclear Dynamics during Germination, Conidiation, and Hyphal Fusion of Fusarium oxysporum. Eukaryotic Cell, 2010, 9, 1216-1224.	3.4	60
28	Purification and characterization of an exo-polygalacturonase from the tomato vascular wilt pathogenFusarium oxysporumf.sp.lycopersici. FEMS Microbiology Letters, 1996, 145, 295-299.	1.8	57
29	Two xylanase genes of the vascular wilt pathogen Fusarium oxysporum are differentially expressed during infection of tomato plants. Molecular Genetics and Genomics, 1999, 261, 530-536.	2.4	57
30	Cloning and characterization of pl1 encoding an in planta-secreted pectate lyase of Fusarium oxysporum. Current Genetics, 1999, 35, 36-40.	1.7	55
31	Combined action of the major secreted exoâ€•and endopolygalacturonases is required for full virulence of <scp><i>F</i></scp><i>usarium oxysporum</i>. Molecular Plant Pathology, 2016, 17, 339-353.	4.2	50
32	Autophagy contributes to regulation of nuclear dynamics during vegetative growth and hyphal fusion in<i>Fusarium oxysporum</i>. Autophagy, 2015, 11, 131-144.	9.1	47
33	Molecular Characterization of a Subtilase from the Vascular Wilt Fungus Fusarium oxysporum. Molecular Plant-Microbe Interactions, 2001, 14, 653-662.	2.6	41
34	Identification of virulence genes in <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> by largeâ€scale transposon tagging. Molecular Plant Pathology, 2009, 10, 95-107.	4.2	40
35	Stress-induced rearrangement of Fusarium retrotransposon sequences. Molecular Genetics and Genomics, 1996, 253, 89-94.	2.4	39
36	Folyt1, a New Member of the hAT Family, Is Active in the Genome of the Plant Pathogen Fusarium oxysporum. Fungal Genetics and Biology, 1999, 27, 67-76.	2.1	36

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37	The Transcription Factor Con7-1 Is a Master Regulator of Morphogenesis and Virulence in <i>Fusarium oxysporum</i>. Molecular Plant-Microbe Interactions, 2015, 28, 55-68.	2.6	36
38	Ctf1, a transcriptional activator of cutinase and lipase genes inFusarium oxysporumis dispensable for virulence. Molecular Plant Pathology, 2008, 9, 293-304.	4.2	33
39	Fusarium oxysporum Adh1 has dual fermentative and oxidative functions and is involved in fungal virulence in tomato plants. Fungal Genetics and Biology, 2011, 48, 886-895.	2.1	33
40	Cross protection provides evidence for race-specific avirulence factors inFusarium oxysporum. Physiological and Molecular Plant Pathology, 1999, 54, 63-72.	2.5	32
41	Genetics of carotene biosynthesis in Phycomyces. Current Genetics, 1982, 5, 5-8.	1.7	31
42	A homologous and self-replicating system for efficient transformation ofFusarium oxysporum. Current Genetics, 1996, 29, 191-198.	1.7	31
43	Purification and characterization of a novel exopolygalacturonase from Fusarium oxysporum f.sp. lycopersici. FEMS Microbiology Letters, 1997, 154, 37-43.	1.8	28
44	Chitin synthaseâ€deficient mutant of <i>Fusarium oxysporum</i> elicits tomato plant defence response and protects against wildâ€type infection. Molecular Plant Pathology, 2010, 11, 479-493.	4.2	27
45	Transformation of a methionine auxotrophic mutant of Mucor circinelloides by direct cloning of the corresponding wild type gene. Molecular Genetics and Genomics, 1991, 230, 449-455.	2.4	26
46	Lipolytic System of the Tomato Pathogen <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>. Molecular Plant-Microbe Interactions, 2013, 26, 1054-1067.	2.6	26
47	Purification and characterization of a pectate lyase fromFusarium oxysporumf.sp.lycopersiciproduced on tomato vascular tissue. Physiological and Molecular Plant Pathology, 1996, 49, 177-185.	2.5	24
48	The Fusarium oxysporum sti35 gene functions in thiamine biosynthesis and oxidative stress response. Fungal Genetics and Biology, 2008, 45, 6-16.	2.1	23
49	Biolistic transformation of Mucor circinelloides. Mycological Research, 1997, 101, 953-956.	2.5	21
50	Influence of the chloride channel of Fusarium oxysporum on extracellular laccase activity and virulence on tomato plants. Microbiology (United Kingdom), 2008, 154, 1474-1481.	1.8	21
51	Role of the <i>Fusarium oxysporum</i> metallothionein Mt1 in resistance to metal toxicity and virulence. Metallomics, 2019, 11, 1230-1240.	2.4	20
52	Endopolygalacturonase PG1 in Different Formae Speciales of <i>Fusarium oxysporum</i>. Applied and Environmental Microbiology, 1998, 64, 1967-1971.	3.1	19
53	Purification and characterization of an acidic endo-Î^{2}-1,4-xylanase from the tomato vascular pathogen Fusarium oxysporum f. sp. lycopersici. FEMS Microbiology Letters, 1997, 148, 75-82.	1.8	18
54	Occurrence of a retrotransposon-like sequence among different formae speciales and races of Fusarium oxysporum. Mycological Research, 1994, 98, 993-996.	2.5	16

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55	The Fusarium oxysporum gnt2, Encoding a Putative N-Acetylglucosamine Transferase, Is Involved in Cell Wall Architecture and Virulence. PLoS ONE, 2013, 8, e84690.	2.5	15
56	A MAP kinase of the vascular wilt fungus Fusarium oxysporum is essential for root penetration and pathogenesis. Molecular Microbiology, 2001, 39, 1140-1152.	2.5	9
57	Regulatory elements mediating expression of xylanase genes in Fusarium oxysporum. Fungal Genetics and Biology, 2008, 45, 28-34.	2.1	8
58	Glycogen catabolism, but not its biosynthesis, affects virulence of Fusarium oxysporum on the plant host. Fungal Genetics and Biology, 2015, 77, 40-49.	2.1	8
59	Nitrate assimilation pathway (NAP): role of structural (nit) and transporter (ntr1) genes in Fusarium oxysporum f.sp. lycopersici growth and pathogenicity. Current Genetics, 2018, 64, 493-507.	1.7	8
60	Amino acid divergence between the CHS domain contributes to the different intracellular behaviour of Family II fungal chitin synthases in Saccharomyces cerevisiae. Fungal Genetics and Biology, 2010, 47, 1034-1043.	2.1	7
61	Comparative proteomic analyses reveal that Gnt2-mediated N -glycosylation affects cell wall glycans and protein content in Fusarium oxysporum. Journal of Proteomics, 2015, 128, 189-202.	2.4	7
62	Isolation and Expression of Enolase Gene in Fusarium oxysporum f. sp. lycopersici. Applied Biochemistry and Biotechnology, 2015, 175, 902-908.	2.9	6
63	Cu transporter protein CrpF protects against Cu-induced toxicity in <i>Fusarium oxysporum</i>. Virulence, 2020, 11, 1108-1121.	4.4	6
64	Regulatory Mechanisms of a Highly Pectinolytic Mutant of Penicillium occitanis and Functional Analysis of a Candidate Gene in the Plant Pathogen Fusarium oxysporum. Frontiers in Microbiology, 2017, 8, 1627.	3.5	4
65	Comparative evaluation of two Fusarium oxysporum f. sp. lycopersici strains grown on two different carbon sources: LC-MS - based secretome study after inÂvivo 15N metabolic labeling. International Journal of Mass Spectrometry, 2020, 449, 116288.	1.5	3
66	A homologous and self-replicating system for efficient transformation of Fusarium oxysporum. Current Genetics, 1996, 29, 191-198.	1.7	3
67	Biochemical and genetic analysis of a unique poly(ADP-ribosyl) glycohydrolase (PARG) of the pathogenic fungus Fusarium oxysporum f. sp. lycopersici. Antonie Van Leeuwenhoek, 2018, 111, 285-295.	1.7	2