

Francisco Javier Ollero

List of Publications by Year in descending order

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docs citations

57
times ranked

2597
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#	ARTICLE	IF	CITATIONS
1	Plant growth promotion in cereal and leguminous agricultural important plants: From microorganism capacities to crop production. <i>Microbiological Research</i> , 2014, 169, 325-336.	5.3	504
2	Phytohormones and induction of plant-stress tolerance and defense genes by seed and foliar inoculation with <i>Azospirillum brasilense</i> cells and metabolites promote maize growth. <i>AMB Express</i> , 2017, 7, 153.	3.0	140
3	Effect of the presence of the plant growth promoting rhizobacterium (PGPR) <i>Chryseobacterium balustinum</i> Aur9 and salt stress in the pattern of flavonoids exuded by soybean roots. <i>Plant and Soil</i> , 2010, 328, 483-493.	3.7	129
4	Transcriptomic Studies of the Effect of nod Gene-Inducing Molecules in Rhizobia: Different Weapons, One Purpose. <i>Genes</i> , 2018, 9, 1.	2.4	120
5	Genomic basis of broad host range and environmental adaptability of <i>Rhizobium tropici</i> CIAT 899 and <i>Rhizobium</i> sp. PRF 81 which are used in inoculants for common bean (<i>Phaseolus vulgaris</i> L.). <i>BMC Genomics</i> , 2012, 13, 735.	2.8	118
6	Co-inoculation of maize with <i>Azospirillum brasilense</i> and <i>Rhizobium tropici</i> as a strategy to mitigate salinity stress. <i>Functional Plant Biology</i> , 2018, 45, 328.	2.1	105
7	NopM and NopD Are Rhizobial Nodulation Outer Proteins: Identification Using LC-MALDI and LC-ESI with a Monolithic Capillary Column. <i>Journal of Proteome Research</i> , 2007, 6, 1029-1037.	3.7	80
8	Rice and bean AHL-mimic quorum-sensing signals specifically interfere with the capacity to form biofilms by plant-associated bacteria. <i>Research in Microbiology</i> , 2013, 164, 749-760.	2.1	70
9	Regulation and symbiotic significance of nodulation outer proteins secretion in <i>Sinorhizobium fredii</i> HH103. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1825-1836.	1.8	67
10	The Absence of Nops Secretion in <i>Sinorhizobium fredii</i> HH103 Increases <i>GmPR1</i> Expression in Williams Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 1445-1454.	2.6	65
11	Mutation in GDP-Fucose Synthesis Genes of <i>Sinorhizobium fredii</i> Alters Nod Factors and Significantly Decreases Competitiveness to Nodulate Soybeans. <i>Molecular Plant-Microbe Interactions</i> , 1999, 12, 207-217.	2.6	64
12	<i>Sinorhizobium fredii</i> HH103 Mutants Affected in Capsular Polysaccharide (KPS) are Impaired for Nodulation with Soybean and <i>Cajanus cajan</i> . <i>Molecular Plant-Microbe Interactions</i> , 2006, 19, 43-52.	2.6	61
13	Maize growth promotion by inoculation with <i>Azospirillum brasilense</i> and metabolites of <i>Rhizobium tropici</i> enriched on lipo-chitooligosaccharides (LCOs). <i>AMB Express</i> , 2015, 5, 71.	3.0	59
14	Effect of pH and soybean cultivars on the quantitative analyses of soybean rhizobia populations. <i>Journal of Biotechnology</i> , 2001, 91, 243-255.	3.8	58
15	NolR Regulates Diverse Symbiotic Signals of <i>Sinorhizobium fredii</i> HH103. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 676-685.	2.6	58
16	Nodulation-gene-inducing flavonoids increase overall production of autoinducers and expression of N-acyl homoserine lactone synthesis genes in rhizobia. <i>Research in Microbiology</i> , 2011, 162, 715-723.	2.1	58
17	NopC Is a <i>Rhizobium</i> -Specific Type 3 Secretion System Effector Secreted by <i>Sinorhizobium</i> (<i>Ensifer</i>) <i>fredii</i> HH103. <i>PLoS ONE</i> , 2015, 10, e0142866.	2.5	54
18	Inactivation of the <i>Sinorhizobium fredii</i> HH103 <i>rhcJ</i> gene abolishes nodulation outer proteins (Nops) secretion and decreases the symbiotic capacity with soybean. <i>International Microbiology</i> , 2006, 9, 125-33.	2.4	52

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19	The Symbiotic Biofilm of <i>Sinorhizobium fredii</i> SMH12, Necessary for Successful Colonization and Symbiosis of <i>Glycine max</i> cv Osumi, Is Regulated by Quorum Sensing Systems and Inducing Flavonoids via NodD1. <i>PLoS ONE</i> , 2014, 9, e105901.	2.5	50
20	Revealing strategies of quorum sensing in <i>Azospirillum brasilense</i> strains Ab-V5 and Ab-V6. <i>Archives of Microbiology</i> , 2018, 200, 47-56.	2.2	46
21	Changes in flavonoids secreted by <i>Phaseolus vulgaris</i> roots in the presence of salt and the plant growth-promoting rhizobacterium <i>Chryseobacterium balustinum</i> . <i>Applied Soil Ecology</i> , 2012, 57, 31-38.	4.3	43
22	The <i>Sinorhizobium</i> (<i>Ensifer</i>) <i>fredii</i> HH103 Nodulation Outer Protein Nopl Is a Determinant for Efficient Nodulation of Soybean and Cowpea Plants. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	43
23	RNA-seq analysis of the <i>Rhizobium tropici</i> CIAT 899 transcriptome shows similarities in the activation patterns of symbiotic genes in the presence of apigenin and salt. <i>BMC Genomics</i> , 2016, 17, 198.	2.8	42
24	Experimental conditions may affect reproducibility of the beta-galactosidase assay. <i>FEMS Microbiology Letters</i> , 1992, 100, 87-90.	1.8	41
25	Soils of the Chinese Hubei Province Show a Very High Diversity of <i>Sinorhizobium fredii</i> Strains. <i>Systematic and Applied Microbiology</i> , 2002, 25, 592-602.	2.8	38
26	The <i>Sinorhizobium</i> (<i>Ensifer</i>) <i>fredii</i> HH103 Type 3 Secretion System Suppresses Early Defense Responses to Effectively Nodulate Soybean. <i>Molecular Plant-Microbe Interactions</i> , 2015, 28, 790-799.	2.6	38
27	Regulatory <i>nodD1</i> and <i>nodD2</i> genes of <i>Rhizobium tropici</i> strain CIAT 899 and their roles in the early stages of molecular signaling and host-legume nodulation. <i>BMC Genomics</i> , 2015, 16, 251.	2.8	38
28	Opening the "black box" of <i>nodD3</i> , <i>nodD4</i> and <i>nodD5</i> genes of <i>Rhizobium tropici</i> strain CIAT 899. <i>BMC Genomics</i> , 2015, 16, 864.	2.8	37
29	<i>Sinorhizobium fredii</i> HH103 Has a Truncated <i>nolO</i> Gene Due to a -1 Frameshift Mutation That Is Conserved Among Other Geographically Distant <i>S. fredii</i> Strains. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 150-159.	2.6	36
30	The effect of FITA mutations on the symbiotic properties of <i>Sinorhizobium fredii</i> varies in a chromosomal-background-dependent manner. <i>Archives of Microbiology</i> , 2004, 181, 144-154.	2.2	35
31	<i>Sinorhizobium fredii</i> HH103 <i>cgs</i> Mutants Are Unable to Nodulate Determinate- and Indeterminate Nodule-Forming Legumes and Overproduce an Altered EPS. <i>Molecular Plant-Microbe Interactions</i> , 2009, 22, 575-588.	2.6	34
32	Antioxidant activity and induction of mechanisms of resistance to stresses related to the inoculation with <i>Azospirillum brasilense</i> . <i>Archives of Microbiology</i> , 2018, 200, 1191-1203.	2.2	34
33	Construction of multipurpose gene cartridges based on a novel synthetic promoter for high-level gene expression in Gram-negative bacteria. <i>Gene</i> , 1994, 144, 17-24.	2.2	30
34	The <i>Rhizobium tropici</i> CIAT 899 <i>NodD2</i> protein regulates the production of Nod factors under salt stress in a flavonoid-independent manner. <i>Scientific Reports</i> , 2017, 7, 46712.	3.3	30
35	Field assessment and genetic stability of <i>Sinorhizobium fredii</i> strain SMH12 for commercial soybean inoculants. <i>European Journal of Agronomy</i> , 2003, 19, 299-309.	4.1	23
36	A Catalogue of Molecular, Physiological and Symbiotic Properties of Soybean-Nodulating Rhizobial Strains from Different Soybean Cropping Areas of China. <i>Systematic and Applied Microbiology</i> , 2003, 26, 453-465.	2.8	21

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37	The Sinorhizobium fredii HH103 type III secretion system effector NopC blocks nodulation with Lotus japonicus Gifu. Journal of Experimental Botany, 2020, 71, 6043-6056.	4.8	21
38	Osmotic stress activates nif and fix genes and induces the Rhizobium tropici CIAT 899 Nod factor production via NodD2 by up-regulation of the nodA2 operon and the nodA3 gene. PLoS ONE, 2019, 14, e0213298.	2.5	19
39	Determination of the chemical structure of the capsular polysaccharide of strain B33, a fast-growing soya bean-nodulating bacterium isolated from an arid region of China. Biochemical Journal, 2001, 357, 505-511.	3.7	18
40	NrcR, a New Transcriptional Regulator of Rhizobium tropici CIAT 899 Involved in the Legume Root-Nodule Symbiosis. PLoS ONE, 2016, 11, e0154029.	2.5	17
41	GunA of Sinorhizobium (Ensifer) fredii HH103 is a T3SS-secreted cellulase that differentially affects symbiosis with cowpea and soybean. Plant and Soil, 2019, 435, 15-26.	3.7	14
42	Brief history of biofertilizers in Brazil: from conventional approaches to new biotechnological solutions. Brazilian Journal of Microbiology, 2021, 52, 2215-2232.	2.0	14
43	Genome of Rhizobium leucaenae strains CFN 299T and CPAO 29.8: searching for genes related to a successful symbiotic performance under stressful conditions. BMC Genomics, 2016, 17, 534.	2.8	13
44	Revealing the roles of y4wF and tidC genes in Rhizobium tropici CIAT 899: biosynthesis of indolic compounds and impact on symbiotic properties. Archives of Microbiology, 2019, 201, 171-183.	2.2	13
45	Determination of the chemical structure of the capsular polysaccharide of strain B33, a fast-growing soya bean-nodulating bacterium isolated from an arid region of China. Biochemical Journal, 2001, 357, 505.	3.7	12
46	The non-flavonoid inducible nodA3 and the flavonoid regulated nodA1 genes of Rhizobium tropici CIAT 899 guarantee nod factor production and nodulation of different host legumes. Plant and Soil, 2019, 440, 185-200.	3.7	9
47	OnfD, an AraC-Type Transcriptional Regulator Encoded by <i>Rhizobium tropici</i> CIAT 899 and Involved in Nod Factor Synthesis and Symbiosis. Applied and Environmental Microbiology, 2020, 86, .	3.1	8
48	Alfalfa nodulation by Sinorhizobium fredii does not require sulfated Nod-factors. Functional Plant Biology, 2003, 30, 1219.	2.1	7
49	Structure of surface polysaccharides from Aeromonas sp. AMG272, a plant-growth promoting rhizobacterium isolated from rice rhizosphere. Carbohydrate Research, 2018, 462, 1-6.	2.3	7
50	Regulation of hsnT, nodF and nodE genes in Rhizobium tropici CIAT 899 and their roles in the synthesis of Nod factors and in the symbiosis. Microbiology (United Kingdom), 2019, 165, 990-1000.	1.8	4
51	Selection and symbiotic properties of Rhizobium leguminosarum biovar phaseoli strains harboring pRtr5a. Current Microbiology, 1989, 19, 179-181.	2.2	3
52	ISrf1, a transposable insertion sequence from Sinorhizobium fredii. Gene, 1997, 204, 63-69.	2.2	3
53	Plant Growth-Promoting Rhizobacteria Modulate the Concentration of Bioactive Compounds in Tomato Fruits. Separations, 2021, 8, 223.	2.4	2
54	Secondary Metabolites of Rhizobium tropici CIAT 899 Added to Bradyrhizobium spp. Inoculant Promote Soybean Growth and Increase Yield. Journal of Soil Science and Plant Nutrition, 2021, 21, 3354-3366.	3.4	1

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55	Isolation and Characterization of Plant Growth-Promotion Diazotrophic Endophytic Bacteria Associated to Sugarcane (<i>Saccharum officinarum</i> L.) Grown in Para�ba, Brazil. <i>Brazilian Archives of Biology and Technology</i> , 0, 65, .	0.5	1
56	Behaviour of a sym plasmid from <i>Rhizobium</i> 'hedysari' in different <i>Rhizobium</i> species. <i>FEMS Microbiology Letters</i> , 1991, 86, 131-138.	1.8	0