Francisco Javier Gutierrez-Maero

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70 papers	2,886 citations	31 h-index	52 g-index
73 ext. papers	3,213 ext. citations	4.4 avg, IF	4.74 L-index

#	Paper	IF	Citations
70	The plant-growth-promoting rhizobacteria Bacillus pumilus and Bacillus licheniformis produce high amounts of physiologically active gibberellins. *Physiologia Plantarum*, **2001**, 111, 206-211	4.6	401
69	Bacterial siderophores efficiently provide iron to iron-starved tomato plants in hydroponics culture. *Antonie Van Leeuwenhoek*, **2013**, 104, 321-30	2.1	161
68	Isolation and characterization of new efficient and competitive bean (Phaseolus vulgaris L.) rhizobia from Brazil. *Soil Biology and Biochemistry*, **2000**, 32, 1515-1528	7.5	152
67	Protection against pathogen and salt stress by four plant growth-promoting rhizobacteria isolated from Pinus sp. on Arabidopsis thaliana. *Phytopathology*, **2008**, 98, 666-72	3.8	116
66	Combined Application of the Biological Product LS213 with Bacillus, Pseudomonas or Chryseobacterium for Growth Promotion and Biological Control of Soil-Borne Diseases in Pepper and Tomato. *BioControl*, **2006**, 51, 245-258	2.3	116
65	Use of two PGPR strains in the integrated management of blast disease in rice (Oryza sativa) in Southern Spain. *Field Crops Research*, **2009**, 114, 404-410	5.5	91
64	Systemic disease protection elicited by plant growth promoting rhizobacteria strains: relationship between metabolic responses, systemic disease protection, and biotic elicitors. *Phytopathology*, **2008**, 98, 451-7	3.8	87
63	Pinus pinea L. seedling growth and bacterial rhizosphere structure after inoculation with PGPR Bacillus (B. licheniformis CECT 5106 and B. pumilus CECT 5105). *Applied Soil Ecology*, **2002**, 20, 75-84	5	84
62	Interactions of arbuscular-mycorrhizal fungi and Bacillus strains and their effects on plant growth, microbial rhizosphere activity (thymidine and leucine incorporation) and fungal biomass (ergosterol and chitin). *Applied Soil Ecology*, **2003**, 22, 15-28	5	78
61	Transgenic tomato plants alter quorum sensing in plant growth-promoting rhizobacteria. *Plant Biotechnology Journal*, **2008**, 6, 442-52	11.6	73
60	The influence of native rhizobacteria on european alder (Alnus glutinosa (L.) Gaertn.) growth. *Plant and Soil*, **1996**, 182, 59-66	4.2	70
59	Beneficial rhizobacteria from rice rhizosphere confers high protection against biotic and abiotic stress inducing systemic resistance in rice seedlings. *Plant Physiology and Biochemistry*, **2014**, 82, 44-53	5.4	68
58	The infuence of native rhizobacteria on European alder (Alnus glutinosa (L.) Gaertn.) growth. *Plant and Soil*, **1996**, 182, 67-74	4.2	68
57	Effects of Inoculation with PGPR Bacillus and Pisolithus tinctorius on Pinus pinea L. Growth, Bacterial rhizosphere Colonization, and Mycorrhizal Infection. *Microbial Ecology*, **2001**, 41, 140-148	4.4	63
56	Low molecular weight organic acids and fatty acids in root exudates of two Lupinus cultivars at flowering and fruiting stages. *Phytochemical Analysis*, **2001**, 12, 305-11	3.4	60
55	Effect of inoculation ofBacillus licheniformison tomato and pepper. *Agronomy for Sustainable Development*, **2004**, 24, 169-176		57
54	Siderophore and chitinase producing isolates from the rhizosphere of Nicotiana glauca Graham enhance growth and induce systemic resistance in Solanum lycopersicum L.. *Plant and Soil*, **2010**, 334, 189-197	4.2	54

53	Application of Pseudomonas fluorescens to Blackberry under Field Conditions Improves Fruit Quality by Modifying Flavonoid Metabolism. *PLoS ONE*, **2015**, 10, e0142639	3.7	51
52	RNA-Seq analysis and transcriptome assembly for blackberry (Rubus sp. Var. Lochness) fruit. *BMC Genomics*, **2015**, 16, 5	4.5	50
51	Growth of forest plants (pine and holm-oak) inoculated with rhizobacteria: relationship with microbial community structure and biological activity of its rhizosphere. *Environmental and Experimental Botany*, **2004**, 52, 239-251	5.9	47
50	Effects of Culture Filtrates of Rhizobacteria Isolated from Wild Lupine on Germination, Growth, and Biological Nitrogen Fixation of Lupine Seedlings. *Journal of Plant Nutrition*, **2003**, 26, 1101-1115	2.3	46
49	Genetic variability of rhizobacteria from wild populations of four Lupinus species based on PCR-RAPDs§. *Journal of Plant Nutrition and Soil Science*, **2001**, 164, 1-7	2.3	44
48	Priming of pathogenesis related-proteins and enzymes related to oxidative stress by plant growth promoting rhizobacteria on rice plants upon abiotic and biotic stress challenge. *Journal of Plant Physiology*, **2015**, 188, 72-9	3.6	41
47	Genetic diversity of indigenous tropical fast-growing rhizobia isolated from soybean nodules. *Plant and Soil*, **2006**, 288, 343-356	4.2	41
46	Screening for putative PGPR to improve establishment of the symbiosis Lactarius deliciosus-Pinus sp. *Microbial Ecology*, **2005**, 50, 82-9	4.4	41
45	Effect of inoculation with putative plant growth-promoting rhizobacteria isolated from Pinus spp. on Pinus pinea growth, mycorrhization and rhizosphere microbial communities. *Journal of Applied Microbiology*, **2008**, 105, 1298-309	4.7	39
44	Alterations in the rhizobacterial community associated with European alder growth when inoculated with PGPR strain Bacillus licheniformis. *Environmental and Experimental Botany*, **2003**, 49, 61-68	5.9	38
43	Elicitation of systemic resistance and growth promotion of Arabidopsis thaliana by PGPRs from Nicotiana glauca: a study of the putative induction pathway. *Plant and Soil*, **2007**, 290, 43-50	4.2	37
42	Elicitation of secondary metabolism in Hypericum perforatum by rhizosphere bacteria and derived elicitors in seedlings and shoot cultures. *Pharmaceutical Biology*, **2012**, 50, 1201-9	3.8	36
41	Survival of native Pseudomonas in soil and wheat rhizosphere and antagonist activity against plant pathogenic fungi. *Antonie Van Leeuwenhoek*, **2010**, 97, 241-51	2.1	36
40	Biotic elicitation of isoflavone metabolism with plant growth promoting rhizobacteria in early stages of development in Glycine max var. Osumi. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 1484-92	5.7	34
39	Enhanced blackberry production using Pseudomonas fluorescens as elicitor. *Agronomy for Sustainable Development*, **2013**, 33, 385-392	6.8	29
38	Systemic induction of the biosynthesis of terpenic compounds in Digitalis lanata. *Journal of Plant Physiology*, **2003**, 160, 105-13	3.6	28
37	Transcriptomics, Targeted Metabolomics and Gene Expression of Blackberry Leaves and Fruits Indicate Flavonoid Metabolic Flux from Leaf to Red Fruit. *Frontiers in Plant Science*, **2017**, 8, 472	6.2	27
36	Pseudomonas fluorescens N21.4 metabolites enhance secondary metabolism isoflavones in soybean (Glycine max) calli cultures. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 11080-7	5.7	26

35	Annual changes in bioactive contents and production in field-grown blackberry after inoculation with Pseudomonas fluorescens. *Plant Physiology and Biochemistry*, **2014**, 74, 1-8	5.4	24
34	Effect of fire and retardant on soil microbial activity and functional diversity in a Mediterranean pasture. *Geoderma*, **2009**, 153, 186-193	6.7	24
33	Structural and functional study in the rhizosphere of Oryza sativa L. plants growing under biotic and abiotic stress. *Journal of Applied Microbiology*, **2013**, 115, 218-35	4.7	22
32	Microbe associated molecular patterns from rhizosphere bacteria trigger germination and Papaver somniferum metabolism under greenhouse conditions. *Plant Physiology and Biochemistry*, **2014**, 74, 133-40	5.4	21
31	Combined phytoremediation of metal-working fluids with maize plants inoculated with different microorganisms and toxicity assessment of the phytoremediated waste. *Chemosphere*, **2013**, 90, 2654-61	3.4	20
30	Bacterial bioeffectors modify bioactive profile and increase isoflavone content in soybean sprouts (Glycine max var Osumi). *Plant Foods for Human Nutrition*, **2013**, 68, 299-305	3.9	20
29	Separation and identification of organic acids in root exudates of Lupinus luteus by capillary zone electrophoresis **1999**, 10, 55-59		20
28	The role of isoflavone metabolism in plant protection depends on the rhizobacterial MAMP that triggers systemic resistance against Xanthomonas axonopodis pv. glycines in Glycine max (L.) Merr. cv. Osumi. *Plant Physiology and Biochemistry*, **2014**, 82, 9-16	5.4	19
27	Bacillus spp. and Pisolithus tinctorius effects on Quercus ilex ssp. ballota: a study on tree growth, rhizosphere community structure and mycorrhizal infection. *Forest Ecology and Management*, **2004**, 194, 293-303	3.9	18
26	Screening for PGPR to improve growth of Cistus ladanifer seedlings for reforestation of degraded mediterranean ecosystems. *Plant and Soil*, **2006**, 287, 59-68	4.2	16
25	Influence of an indigenous European alder (Alnus glutinosa (L.) Gaertn) rhizobacterium (Bacillus pumilus) on the growth of alder and its rhizosphere microbial community structure in two soils. *New Forests*, **2003**, 25, 149-159	2.6	15
24	Supplementing diet with blackberry extract causes a catabolic response with increments in insulin sensitivity in rats. *Plant Foods for Human Nutrition*, **2015**, 70, 170-5	3.9	13
23	Bacterial bioeffectors delay postharvest fungal growth and modify total phenolics, flavonoids and anthocyanins in blackberries. *LWT - Food Science and Technology*, **2015**, 61, 437-443	5.4	13
22	Characterization of the rhizosphere microbial community from different Arabidopsis thaliana genotypes using phospholipid fatty acids (PLFA) analysis. *Plant and Soil*, **2010**, 329, 315-325	4.2	13
21	Increased microbial activity and nitrogen mineralization coupled to changes in microbial community structure in the rhizosphere of Bt corn. *Applied Soil Ecology*, **2013**, 68, 46-56	5	12
20	Seasonal diversity changes in alder (Alnus glutinosa) culturable rhizobacterial communities throughout a phenological cycle. *Applied Soil Ecology*, **2005**, 29, 215-224	5	12
19	Spent metal working fluids produced alterations on photosynthetic parameters and cell-ultrastructure of leaves and roots of maize plants. *Journal of Hazardous Materials*, **2013**, 260, 220-30	12.8	11
18	Colonization of pepper roots by a plant growth promoting Pseudomonas fluorescens strain. *Biology and Fertility of Soils*, **2003**, 37, 381-385	6.1	11

17	Oxidative stress in ryegrass growing under different air pollution levels and its likely effects on pollen allergenicity. *Plant Physiology and Biochemistry*, **2019**, 135, 331-340	5.4	11
16	Method development for determination of (+)-catechin and (-)-epicatechin by micellar electrokinetic chromatography: annual characterization of field grown blackberries. *Electrophoresis*, **2013**, 34, 2251-8	3.6	10
15	Functional diversity of rhizosphere microorganisms from different genotypes ofArabidopsis thaliana. *Community Ecology*, **2009**, 10, 111-119	1.2	10
14	Biotic elicitation as a tool to improve strawberry and raspberry extract potential on metabolic syndrome-related enzymes in vitro. *Journal of the Science of Food and Agriculture*, **2019**, 99, 2939-2946	4.3	9
13	Lemna minor tolerance to metal-working fluid residues: implications for rhizoremediation. *Plant Biology*, **2016**, 18, 695-702	3.7	8
12	Extracts from cultures of induce defensive patterns of gene expression and enzyme activity while depressing visible injury and reactive oxygen species in challenged with pathogenic. *AoB PLANTS*, **2019**, 11, plz049	2.9	8
11	Effect of alder (Alnus glutinosa L. Gaertn.) roots on distribution of proteolytic, ammonifying, and nitrifying bacteria in soil. *Geomicrobiology Journal*, **1995**, 13, 129-138	2.5	7
10	Management of Plant Physiology with Beneficial Bacteria to Improve Leaf Bioactive Profiles and Plant Adaptation under Saline Stress in L. *Foods*, **2020**, 9,	4.9	6
9	Functional diversity and dynamics of bacterial communities in a membrane bioreactor for the treatment of metal-working fluid wastewater. *Journal of Water and Health*, **2015**, 13, 1006-19	2.2	6
8	Effects of european alder (Alnus flutinosa (L.) Gaertn) rhizobacteria on nodular metabolism and root development. *Plant Growth Regulation*, **1997**, 22, 145-149	3.2	6
7	Seasonal changes in physiological groups of bacteria that participate in the nitrogen cycle in the rhizosphere of the alder. *Geomicrobiology Journal*, **1993**, 11, 133-140	2.5	3
6	Photosynthetic and Ultrastructure Parameters of Maize Plants are Affected During the Phyto-Rhizoremediation Process of Degraded Metal Working Fluids. *International Journal of Phytoremediation*, **2015**, 17, 1183-91	3.9	2
5	Bioeffectors as Biotechnological Tools to Boost Plant Innate Immunity: Signal Transduction Pathways Involved. *Plants*, **2020**, 9,	4.5	2
4	Changes of enzyme activities related to oxidative stress in rice plants inoculated with random mutants of a Pseudomonas fluorescens strain able to improve plant fitness upon biotic and abiotic conditions. *Functional Plant Biology*, **2017**, 44, 1063-1074	2.7	2
3	Phytoremediation of Contaminated Waters to Improve Water Quality **2015**, 11-26		1
2	Evaluation of biocontrol agro-techniques against R. solani: study of microbial communities catabolic profile modifications. *Journal of Agricultural Science*, **2011**, 149, 595-607	1	1
1	Beneficial Microorganisms: The Best Partner to Improve Plant Adaptative Capacity. *Biology and Life Sciences Forum*, **2021**, 4, 102		0