

# Rafael Rivilla

## List of Publications by Year in descending order

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63  
papers

2,694  
citations

126708

33  
h-index

189595

50  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic and Genetic Diversity within the <i>Pseudomonas fluorescens</i> Complex. PLoS ONE, 2016, 11, e0150183.	1.1	171
2	Polychlorinated Biphenyl Rhizoremediation by <i>Pseudomonas fluorescens</i> F113 Derivatives, Using a <i>Sinorhizobium meliloti</i> nod System To Drive bph Gene Expression. Applied and Environmental Microbiology, 2005, 71, 2687-2694.	1.4	146
3	Phenotypic Selection and Phase Variation Occur during Alfalfa Root Colonization by <i>Pseudomonas fluorescens</i> F113. Journal of Bacteriology, 2002, 184, 1587-1596.	1.0	134
4	Analysis of <i>Pseudomonas fluorescens</i> F113 genes implicated in flagellar filament synthesis and their role in competitive root colonization. Microbiology (United Kingdom), 2004, 150, 3889-3897.	0.7	129
5	<i>Pseudomonas fluorescens</i> F113 Mutant with Enhanced Competitive Colonization Ability and Improved Biocontrol Activity against Fungal Root Pathogens. Applied and Environmental Microbiology, 2011, 77, 5412-5419.	1.4	113
6	Ionic Stress and Osmotic Pressure Induce Different Alterations in the Lipopolysaccharide of a <i>Rhizobium meliloti</i> Strain. Applied and Environmental Microbiology, 1995, 61, 3701-3704.	1.4	89
7	Title is missing!. Plant and Soil, 2003, 251, 47-54.	1.8	81
8	Metagenomic Insights into the Bacterial Functions of a Diesel-Degrading Consortium for the Rhizoremediation of Diesel-Polluted Soil. Genes, 2019, 10, 456.	1.0	79
9	Rhizosphere Selection of Highly Motile Phenotypic Variants of <i>Pseudomonas fluorescens</i> with Enhanced Competitive Colonization Ability. Applied and Environmental Microbiology, 2006, 72, 3429-3434.	1.4	78
10	Genome sequence reveals that <i>Pseudomonas fluorescens</i> F113 possesses a large and diverse array of systems for rhizosphere function and host interaction. BMC Genomics, 2013, 14, 54.	1.2	78
11	Efficient rhizosphere colonization by <i>Pseudomonas fluorescens</i> f113 mutants unable to form biofilms on abiotic surfaces. Environmental Microbiology, 2010, 12, 3185-3195.	1.8	74
12	Plant flavonoids target <i>Pseudomonas syringae</i> pv. tomato DC3000 flagella and type III secretion system. Environmental Microbiology Reports, 2013, 5, 841-850.	1.0	71
13	Genome Sequence of the Biocontrol Strain <i>Pseudomonas fluorescens</i> F113. Journal of Bacteriology, 2012, 194, 1273-1274.	1.0	69
14	Two site-specific recombinases are implicated in phenotypic variation and competitive rhizosphere colonization in <i>Pseudomonas fluorescens</i> . Microbiology (United Kingdom), 2005, 151, 975-983.	0.7	65
15	Exopolysaccharide II Production Is Regulated by Salt in the Halotolerant Strain <i>Rhizobium meliloti</i> EFB1. Applied and Environmental Microbiology, 1998, 64, 1024-1028.	1.4	64
16	Changes in Bacterial Populations and in Biphenyl Dioxygenase Gene Diversity in a Polychlorinated Biphenyl-Polluted Soil after Introduction of Willow Trees for Rhizoremediation. Applied and Environmental Microbiology, 2007, 73, 6224-6232.	1.4	63
17	The Gac-Rsm and SadB Signal Transduction Pathways Converge on AlgU to Downregulate Motility in <i>Pseudomonas fluorescens</i> . PLoS ONE, 2012, 7, e31765.	1.1	63
18	Identification of flgZ as a Flagellar Gene Encoding a PilZ Domain Protein That Regulates Swimming Motility and Biofilm Formation in <i>Pseudomonas</i> . PLoS ONE, 2014, 9, e87608.	1.1	61

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19	The Sinorhizobium meliloti RNA chaperone Hfq influences central carbon metabolism and the symbiotic interaction with alfalfa. BMC Microbiology, 2010, 10, 71.	1.3	58
20	Metagenomic Analysis of a Biphenyl-Degrading Soil Bacterial Consortium Reveals the Metabolic Roles of Specific Populations. Frontiers in Microbiology, 2018, 9, 232.	1.5	58
21	The introduction of genetically modified microorganisms designed for rhizoremediation induces changes on native bacteria in the rhizosphere but not in the surrounding soil. ISME Journal, 2007, 1, 215-223.	4.4	53
22	Classification of Isolates from the Pseudomonas fluorescens Complex into Phylogenomic Groups Based in Group-Specific Markers. Frontiers in Microbiology, 2017, 8, 413.	1.5	51
23	Rhizobium leguminosarum NodT is related to a family of outer-membrane transport proteins that includes TolC, PrtF, CyaE and AprF. Gene, 1995, 161, 27-31.	1.0	50
24	Lectin-Like Glycoprotein PsNLEC-1 Is Not Correctly Glycosylated and Targeted in Boron-Deficient Pea Nodules. Molecular Plant-Microbe Interactions, 2001, 14, 663-670.	1.4	44
25	Three independent signalling pathways repress motility in <i>Pseudomonas fluorescens</i> F113. Microbial Biotechnology, 2009, 2, 489-498.	2.0	44
26	Genome-wide analysis of the FleQ direct regulon in Pseudomonas fluorescens F113 and Pseudomonas putida KT2440. Scientific Reports, 2018, 8, 13145.	1.6	44
27	Effects of boron and calcium nutrition on the establishment of the Rhizobium leguminosarum -pea (Pisum sativum ) symbiosis and nodule development under salt stress. Plant, Cell and Environment, 2003, 26, 1003-1011.	2.8	41
28	AmrZ is a global transcriptional regulator implicated in iron uptake and environmental adaption in P. fluorescens F113. BMC Genomics, 2014, 15, 237.	1.2	41
29	<i>AmrZ</i> regulates cellulose production in <i>Pseudomonas syringae</i> pv. tomato DC3000. Molecular Microbiology, 2016, 99, 960-977.	1.2	41
30	The introduction of genetically modified microorganisms designed for rhizoremediation induces changes on native bacteria in the rhizosphere but not in the surrounding soil. ISME Journal, 2007, 1, 215-223.	4.4	38
31	Cell Surface Interactions of Rhizobium Bacteroids and Other Bacterial Strains with Symbiosomal and Peribacteroid Membrane Components from Pea Nodules. Molecular Plant-Microbe Interactions, 2004, 17, 216-223.	1.4	37
32	Nitrogenase Inhibition in Nodules from Pea Plants Grown Under Salt Stress Occurs at the Physiological Level and can be Alleviated by B and Ca. Plant and Soil, 2006, 280, 135-142.	1.8	36
33	Influence of boron and calcium on the tolerance to salinity of nitrogen-fixing pea plants. Plant and Soil, 2003, 251, 93-103.	1.8	34
34	Pseudomonas fluorescens F113 type VI secretion systems mediate bacterial killing and adaption to the rhizosphere microbiome. Scientific Reports, 2021, 11, 5772.	1.6	31
35	AmrZ is a major determinant of c-di-GMP levels in Pseudomonas fluorescens F113. Scientific Reports, 2018, 8, 1979.	1.6	27
36	Comparative Genomics of the Rhodococcus Genus Shows Wide Distribution of Biodegradation Traits. Microorganisms, 2020, 8, 774.	1.6	25

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37	Chemotactic Motility of <i>Pseudomonas fluorescens</i> F113 under Aerobic and Denitrification Conditions. PLoS ONE, 2015, 10, e0132242.	1.1	23
38	In Silico Characterization and Phylogenetic Distribution of Extracellular Matrix Components in the Model Rhizobacteria <i>Pseudomonas fluorescens</i> F113 and Other Pseudomonads. Microorganisms, 2020, 8, 1740.	1.6	20
39	Analysis of the biodegradative and adaptive potential of the novel polychlorinated biphenyl degrader <i>Rhodococcus</i> sp. WAY2 revealed by its complete genome sequence. Microbial Genomics, 2020, 6, .	1.0	20
40	Identification of a <i>Rhizobium leguminosarum</i> gene homologous to nodT but located outside the symbiotic plasmid. Gene, 1994, 144, 87-91.	1.0	19
41	Comparative genomics of the <i>Pseudomonas corrugata</i> subgroup reveals high species diversity and allows the description of <i>Pseudomonas ogarae</i> sp. nov.. Microbial Genomics, 2021, 7, .	1.0	19
42	<i>Pseudomonas fluorescens</i> F113 Can Produce a Second Flagellar Apparatus, Which Is Important for Plant Root Colonization. Frontiers in Microbiology, 2016, 7, 1471.	1.5	18
43	Phylogenomic Analyses of Bradyrhizobium Reveal Uneven Distribution of the Lateral and Subpolar Flagellar Systems, Which Extends to Rhizobiales. Microorganisms, 2019, 7, 50.	1.6	16
44	MucR Is Necessary for Galactoglucan Production in <i>Sinorhizobium meliloti</i> EFB1. Molecular Plant-Microbe Interactions, 2000, 13, 129-135.	1.4	14
45	Transcriptional Organization of the Region Encoding the Synthesis of the Flagellar Filament in <i>Pseudomonas fluorescens</i> . Journal of Bacteriology, 2008, 190, 4106-4109.	1.0	14
46	The diguanylate cyclase AdrA regulates flagellar biosynthesis in <i>Pseudomonas fluorescens</i> F113 through SadB. Scientific Reports, 2019, 9, 8096.	1.6	12
47	Research Note: Boron deficiency affects early infection events in the pea-Rhizobium symbiotic interaction. Functional Plant Biology, 2001, 28, 819.	1.1	12
48	PCR Use of Highly Conserved DNA Regions for Identification of <i>Sinorhizobium meliloti</i> . Applied and Environmental Microbiology, 2000, 66, 3621-3623.	1.4	11
49	A partner-switching system controls activation of mixed-linkage $\beta$ -glucan synthesis by c-di-GMP in <i>Sinorhizobium meliloti</i> . Environmental Microbiology, 2019, 21, 3379-3391.	1.8	11
50	Soil Microbiome Structure and Function in Ecopiles Used to Remediate Petroleum-Contaminated Soil. Frontiers in Environmental Science, 2021, 9, .	1.5	11
51	Simplified methods for the microbiological evaluation of bottled natural mineral waters. Journal of Applied Bacteriology, 1988, 64, 273-278.	1.1	10
52	Effectiveness of biochar application and bioaugmentation techniques for the remediation of freshly and aged diesel-polluted soils. International Biodeterioration and Biodegradation, 2021, 163, 105259.	1.9	10
53	Fluorescence Resonance Energy Transfer (FRET) based molecular detection of a genetically modified PCB degrader in soil. FEMS Microbiology Letters, 2004, 236, 349-357.	0.7	7
54	Fluorescence Resonance Energy Transfer (FRET) based molecular detection of a genetically modified PCB degrader in soil. FEMS Microbiology Letters, 2004, 236, 349-357.	0.7	7

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55	MucR and MucS Activate exp Genes Transcription and Galactoglucan Production in Sinorhizobium meliloti EFB1. <i>Molecular Plant-Microbe Interactions</i> , 2002, 15, 54-59.	1.4	6
56	Transcriptomic analysis of <i>Pseudomonas ogarae</i> F113 reveals the antagonistic roles of AmrZ and FleQ during rhizosphere adaption. <i>Microbial Genomics</i> , 2022, 8, .	1.0	6
57	Seasonal variations of pollution indicators in a wildfowl reserve (Doña Ana National Park, Spain). <i>Journal of Applied Bacteriology</i> , 1989, 67, 219-223.	1.1	5
58	Regulation of extracellular matrix components by AmrZ is mediated by c-di-GMP in <i>Pseudomonas ogarae</i> F113. <i>Scientific Reports</i> , 2022, 12, .	1.6	4
59	Gene <i>Smb21071</i> of plasmid pSymB is required for osmoadaptation of <i>Sinorhizobium meliloti</i> 1021 and is implicated in modifications of cell surface polysaccharides structure in response to hyperosmotic stress. <i>Canadian Journal of Microbiology</i> , 2009, 55, 1145-1152.	0.8	2
60	A note on the isolation of psychrotrophic coliform organisms from faecal-polluted environments. <i>Journal of Applied Bacteriology</i> , 1991, 70, 522-524.	1.1	1
61	What makes rhizobia rhizosphere colonizers?. <i>Environmental Microbiology</i> , 2017, 19, 4379-4381.	1.8	1
62	Phase Variation in Plant-Associated <i>Pseudomonads</i> . , 2014, , 55-79.		1
63	Host recognition in the <i>Rhizobium leguminosarum</i> "pea symbiosis. , 1992, , 257-266.		0