

# Randy Ortiz-Castro

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,980  
citations

430874

18  
h-index

552781

26  
g-index

29  
all docs

29  
docs citations

29  
times ranked

2383  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of microbial signals in plant growth and development. <i>Plant Signaling and Behavior</i> , 2009, 4, 701-712.	2.4	472
2	Plant growth promotion by <i>Bacillus megaterium</i> involves cytokinin signaling. <i>Plant Signaling and Behavior</i> , 2008, 3, 263-265.	2.4	233
3	<i>N-acyl-L-homoserine</i> lactones: a class of bacterial quorum-sensing signals alter post-embryonic root development in <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2008, 31, 1497-1509.	5.7	224
4	Melatonin regulates <i>Arabidopsis</i> root system architecture likely acting independently of auxin signaling. <i>Journal of Pineal Research</i> , 2012, 53, 279-288.	7.4	218
5	Transkingdom signaling based on bacterial cyclodipeptides with auxin activity in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7253-7258.	7.1	197
6	Serotonin, a Tryptophan-Derived Signal Conserved in Plants and Animals, Regulates Root System Architecture Probably Acting as a Natural Auxin Inhibitor in <i>Arabidopsis thaliana</i> . <i>Plant and Cell Physiology</i> , 2011, 52, 490-508.	3.1	109
7	<i>Pseudomonas putida</i> and <i>Pseudomonas fluorescens</i> Influence <i>Arabidopsis</i> Root System Architecture Through an Auxin Response Mediated by Bioactive Cyclodipeptides. <i>Journal of Plant Growth Regulation</i> , 2020, 39, 254-265.	5.1	52
8	Phosphate relieves chromium toxicity in <i>Arabidopsis thaliana</i> plants by interfering with chromate uptake. <i>BioMetals</i> , 2014, 27, 363-370.	4.1	48
9	Pyocyanin, a Virulence Factor Produced by <i>Pseudomonas aeruginosa</i> , Alters Root Development Through Reactive Oxygen Species and Ethylene Signaling in <i>Arabidopsis</i> . <i>Molecular Plant-Microbe Interactions</i> , 2014, 27, 364-378.	2.6	48
10	PHYTOCHROME AND FLOWERING TIME1/MEDIATOR25 Regulates Lateral Root Formation via Auxin Signaling in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 880-894.	4.8	47
11	Review: Phytostimulation and root architectural responses to quorum-sensing signals and related molecules from rhizobacteria. <i>Plant Science</i> , 2019, 284, 135-142.	3.6	45
12	Non-ribosomal Peptide Synthases from <i>Pseudomonas aeruginosa</i> Play a Role in Cyclodipeptide Biosynthesis, Quorum-Sensing Regulation, and Root Development in a Plant Host. <i>Microbial Ecology</i> , 2017, 73, 616-629.	2.8	42
13	The plant beneficial rhizobacterium <i>Achromobacter</i> sp. 5B1 influences root development through auxin signaling and redistribution. <i>Plant Journal</i> , 2020, 103, 1639-1654.	5.7	42
14	Tissue culture of <i>Arabidopsis thaliana</i> explants reveals a stimulatory effect of alkamides on adventitious root formation and nitric oxide accumulation. <i>Plant Science</i> , 2008, 174, 165-173.	3.6	39
15	Characterization of <i>drr1</i> , an Alkamide-Resistant Mutant of <i>Arabidopsis</i> , Reveals an Important Role for Small Lipid Amides in Lateral Root Development and Plant Senescence. <i>Plant Physiology</i> , 2010, 152, 1659-1673.	4.8	36
16	CONSTITUTIVE TRIPLE RESPONSE1 and PIN2 act in a coordinate manner to support the indeterminate root growth and meristem cell proliferating activity in <i>Arabidopsis</i> seedlings. <i>Plant Science</i> , 2019, 280, 175-186.	3.6	23
17	Chromate alters root system architecture and activates expression of genes involved in iron homeostasis and signaling in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2014, 86, 35-50.	3.9	22
18	Chromate induces adventitious root formation via auxin signalling and SOLITARY-ROOT/IAA14 gene function in <i>Arabidopsis thaliana</i> . <i>BioMetals</i> , 2015, 28, 353-365.	4.1	21

#	ARTICLE	IF	CITATIONS
19	Characterization of plant growth-promoting bacteria associated with avocado trees ( <i>Persea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf PLoS ONE, 2020, 15, e0231215.	2.5	17
20	<i>Micrococcus luteus</i> LS570 promotes root branching in <i>Arabidopsis</i> via decreasing apical dominance of the primary root and an enhanced auxin response. <i>Protoplasma</i> , 2022, 259, 1139-1155.	2.1	11
21	Sucrose Protects <i>Arabidopsis</i> Roots from Chromium Toxicity Influencing the Auxinâ€Plethora Signaling Pathway and Improving Meristematic Cell Activity. <i>Journal of Plant Growth Regulation</i> , 2018, 37, 530-538.	5.1	9
22	Plant growth-promoting and non-promoting rhizobacteria from avocado trees differentially emit volatiles that influence growth of <i>Arabidopsis thaliana</i> . <i>Protoplasma</i> , 2022, 259, 835-854.	2.1	8
23	Temporal root responses in <i>Arabidopsis thaliana</i> L. to chromate reveal structural and regulatory mechanisms involving the SOLITARY ROOT/IAA14 repressor for maintenance of identity meristem genes. <i>Plant Growth Regulation</i> , 2018, 86, 251-262.	3.4	5
24	Determinate root development in the halted primary root1 mutant of <i>Arabidopsis</i> correlates with death of root initial cells and an enhanced auxin response. <i>Protoplasma</i> , 2019, 256, 1657-1666.	2.1	4
25	dhm1, an <i>Arabidopsis</i> mutant with increased sensitivity to alkamides shows tumorous shoot development and enhanced lateral root formation. <i>Plant Molecular Biology</i> , 2013, 81, 609-625.	3.9	3
26	Bacterial Quorum-Sensing Signaling-Related drr1 Mutant Influences Abscissic Acid Responsiveness in <i>Arabidopsis thaliana</i> L.. <i>Journal of Plant Growth Regulation</i> , 0, , 1.	5.1	2
27	<i>Pisolithus tinctorius</i> extract affects the root system architecture through compound production with auxin-like activity in <i>Arabidopsis thaliana</i> .. <i>Rhizosphere</i> , 2021, 19, 100397.	3.0	2
28	Fluorescence detection of pyrene-stained <i>Bacillus subtilis</i> LPM1 rhizobacteria from colonized patterns of tomato roots. <i>Photochemical and Photobiological Sciences</i> , 2020, 19, 1423-1432.	2.9	1
29	Microorganisms Associated with the Ambrosial Beetle <i>Xyleborus affinis</i> with Plant Growth-Promotion Activity in <i>Arabidopsis</i> Seedlings and Antifungal Activity Against Phytopathogenic Fungus <i>Fusarium</i> sp. INECOL_BM-06. <i>Microbial Ecology</i> , 2022, , 1.	2.8	0