

# David M Weller

## List of Publications by Citations

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63

papers

7,003

citations

34

h-index

64

g-index

64

ext. papers

8,598

ext. citations

5

avg, IF

5.98

L-index

#	Paper	IF	Citations
63	Induced systemic resistance by beneficial microbes. <i>Annual Review of Phytopathology</i> , <b>2014</b> , 52, 347-75	10.8	1380
62	Microbial populations responsible for specific soil suppressiveness to plant pathogens. <i>Annual Review of Phytopathology</i> , <b>2002</b> , 40, 309-48	10.8	1172
61	<i>Pseudomonas</i> biocontrol agents of soilborne pathogens: looking back over 30 years. <i>Phytopathology</i> , <b>2007</b> , 97, 250-6	3.8	484
60	Comparative genomics of plant-associated <i>Pseudomonas</i> spp.: insights into diversity and inheritance of traits involved in multitrophic interactions. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002784	6	432
59	Natural Plant Protection by 2,4-Diacetylphloroglucinol-Producing <i>Pseudomonas</i> spp. in Take-All Decline Soils. <i>Molecular Plant-Microbe Interactions</i> , <b>1998</b> , 11, 144-152	3.6	366
58	Production of the antibiotic phenazine-1-carboxylic Acid by fluorescent <i>Pseudomonas</i> species in the rhizosphere of wheat. <i>Applied and Environmental Microbiology</i> , <b>1990</b> , 56, 908-12	4.8	349
57	Microbial and biochemical basis of a <i>Fusarium</i> wilt-suppressive soil. <i>ISME Journal</i> , <b>2016</b> , 10, 119-29	11.9	224
56	Disease Suppressive Soils: New Insights from the Soil Microbiome. <i>Phytopathology</i> , <b>2017</b> , 107, 1284-1297	3.8	219
55	Exploiting genotypic diversity of 2,4-diacetylphloroglucinol-producing <i>Pseudomonas</i> spp.: characterization of superior root-colonizing <i>P. fluorescens</i> strain Q8r1-96. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 2545-54	4.8	200
54	Effect of Population Density of <i>Pseudomonas fluorescens</i> on Production of 2,4-Diacetylphloroglucinol in the Rhizosphere of Wheat. <i>Phytopathology</i> , <b>1999</b> , 89, 470-5	3.8	193
53	Induced systemic resistance in <i>Arabidopsis thaliana</i> against <i>Pseudomonas syringae</i> pv. tomato by 2,4-diacetylphloroglucinol-producing <i>Pseudomonas fluorescens</i> . <i>Phytopathology</i> , <b>2012</b> , 102, 403-12	3.8	149
52	Genetic Diversity of pHlD from 2,4-Diacetylphloroglucinol-Producing Fluorescent <i>Pseudomonas</i> spp. <i>Phytopathology</i> , <b>2001</b> , 91, 35-43	3.8	143
51	A rapid polymerase chain reaction-based assay characterizing rhizosphere populations of 2,4-diacetylphloroglucinol-producing bacteria. <i>Phytopathology</i> , <b>2001</b> , 91, 44-54	3.8	140
50	Differential ability of genotypes of 2,4-diacetylphloroglucinol-producing <i>Pseudomonas fluorescens</i> strains to colonize the roots of pea plants. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 3226-37	4.8	135
49	Accumulation of the antibiotic phenazine-1-carboxylic acid in the rhizosphere of dryland cereals. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 804-12	4.8	104
48	Take-all of Wheat and Natural Disease Suppression: A Review. <i>Plant Pathology Journal</i> , <b>2013</b> , 29, 125-35	2.5	84
47	Interactions Between Strains of 2,4-Diacetylphloroglucinol-Producing <i>Pseudomonas fluorescens</i> in the Rhizosphere of Wheat. <i>Phytopathology</i> , <b>2003</b> , 93, 982-94	3.8	81

46	Biocontrol and plant growth-promoting activity of rhizobacteria from Chinese fields with contaminated soils. <i>Microbial Biotechnology</i> , <b>2015</b> , 8, 404-18	6.3	62
45	Transformation of <i>Pseudomonas fluorescens</i> with genes for biosynthesis of phenazine-1-carboxylic acid improves biocontrol of rhizoctonia root rot and in situ antibiotic production. <i>FEMS Microbiology Ecology</i> , <b>2004</b> , 49, 243-51	4.3	61
44	Yield Responses of Direct-Seeded Wheat to Rhizobacteria and Fungicide Seed Treatments. <i>Plant Disease</i> , <b>2002</b> , 86, 780-784	1.5	58
43	Enrichment and genotypic diversity of pHLD-containing fluorescent <i>Pseudomonas</i> spp. in two soils after a century of wheat and flax monoculture. <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 55, 351-68	4.3	55
42	Irrigation differentially impacts populations of indigenous antibiotic-producing <i>Pseudomonas</i> spp. in the rhizosphere of wheat. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 3214-20	4.8	52
41	Biological control of take-all by fluorescent <i>Pseudomonas</i> spp. from Chinese wheat fields. <i>Phytopathology</i> , <b>2011</b> , 101, 1481-91	3.8	51
40	pHLD-based genetic diversity and detection of genotypes of 2,4-diacetylphloroglucinol-producing <i>Pseudomonas fluorescens</i> . <i>FEMS Microbiology Ecology</i> , <b>2006</b> , 56, 64-78	4.3	51
39	Diversity, virulence, and 2,4-diacetylphloroglucinol sensitivity of <i>Gaeumannomyces graminis</i> var. <i>tritici</i> isolates from Washington state. <i>Phytopathology</i> , <b>2009</b> , 99, 472-9	3.8	46
38	Distribution of a Take-All Suppressive Strain of <i>Pseudomonas fluorescens</i> on Seminal Roots of Winter Wheat. <i>Applied and Environmental Microbiology</i> , <b>1984</b> , 48, 897-9	4.8	46
37	Long-Term Irrigation Affects the Dynamics and Activity of the Wheat Rhizosphere Microbiome. <i>Frontiers in Plant Science</i> , <b>2018</b> , 9, 345	6.2	45
36	A mutualistic interaction between <i>Streptomyces</i> bacteria, strawberry plants and pollinating bees. <i>Nature Communications</i> , <b>2019</b> , 10, 4802	17.4	43
35	Structural and functional analysis of the type III secretion system from <i>Pseudomonas fluorescens</i> Q8r1-96. <i>Journal of Bacteriology</i> , <b>2011</b> , 193, 177-89	3.5	43
34	Multiple Modes of Nematode Control by Volatiles of 1A00316 from Antarctic Soil against. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 253	5.7	36
33	Biological control of wheat root diseases by the CLP-producing strain <i>Pseudomonas fluorescens</i> HC1-07. <i>Phytopathology</i> , <b>2014</b> , 104, 248-56	3.8	36
32	Volatile organic compounds from <i>Paenibacillus polymyxa</i> KM2501-1 control <i>Meloidogyne incognita</i> by multiple strategies. <i>Scientific Reports</i> , <b>2017</b> , 7, 16213	4.9	35
31	Population structure and diversity of phenazine-1-carboxylic acid producing fluorescent <i>Pseudomonas</i> spp. from dryland cereal fields of central Washington State (USA). <i>Microbial Ecology</i> , <b>2012</b> , 64, 226-41	4.4	34
30	<i>Saccharomyces cerevisiae</i> genome-wide mutant screen for sensitivity to 2,4-diacetylphloroglucinol, an antibiotic produced by <i>Pseudomonas fluorescens</i> . <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 1770-6	4.8	34
29	<i>Pseudomonas fluorescens</i> UP61 Isolated From Birdsfoot Trefoil Rhizosphere Produces Multiple Antibiotics and Exerts a Broad Spectrum of Biocontrol Activity. <i>European Journal of Plant Pathology</i> , <b>2004</b> , 110, 671-681	2.1	32

28	Factors impacting the activity of 2,4-diacetylphloroglucinol-producing <i>Pseudomonas fluorescens</i> against take-all of wheat. <i>Soil Biology and Biochemistry</i> , <b>2012</b> , 54, 48-56	7.5	31
27	The role of dsbA in colonization of the wheat rhizosphere by <i>Pseudomonas fluorescens</i> Q8r1-96. <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 863-872	2.9	25
26	Phenazine-1-carboxylic acid and soil moisture influence biofilm development and turnover of rhizobacterial biomass on wheat root surfaces. <i>Environmental Microbiology</i> , <b>2018</b> , 20, 2178-2194	5.2	24
25	Convenient synthesis of 2,4-diacetylphloroglucinol, a natural antibiotic involved in the control of take-all disease of wheat. <i>Journal of Agricultural and Food Chemistry</i> , <b>2000</b> , 48, 1882-7	5.7	24
24	Sensitivity of Rhizoctonia Isolates to Phenazine-1-Carboxylic Acid and Biological Control by Phenazine-Producing <i>Pseudomonas</i> spp. <i>Phytopathology</i> , <b>2017</b> , 107, 692-703	3.8	23
23	Biological Control of <i>Botrytis cinerea</i> : Interactions with Native Vineyard Yeasts from Washington State. <i>Phytopathology</i> , <b>2018</b> , 108, 691-701	3.8	23
22	Caryolan-1-ol, an antifungal volatile produced by spp., inhibits the endomembrane system of fungi. <i>Open Biology</i> , <b>2017</b> , 7,	7	18
21	Taxonomy and distribution of phenazine-producing <i>Pseudomonas</i> spp. in the dryland agroecosystem of the Inland Pacific Northwest, United States. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 3887-91	4.8	18
20	Molecular Characterization, Morphological Characteristics, Virulence, and Geographic Distribution of Rhizoctonia spp. in Washington State. <i>Phytopathology</i> , <b>2016</b> , 106, 459-73	3.8	17
19	Root-associated microbes in sustainable agriculture: models, metabolites and mechanisms. <i>Pest Management Science</i> , <b>2019</b> , 75, 2360-2367	4.6	14
18	Root Exudates Alter the Expression of Diverse Metabolic, Transport, Regulatory, and Stress Response Genes in Rhizosphere. <i>Frontiers in Microbiology</i> , <b>2021</b> , 12, 651282	5.7	13
17	The soil-borne legacy in the age of the holobiont. <i>Microbial Biotechnology</i> , <b>2019</b> , 12, 51-54	6.3	12
16	Construction of a recombinant strain of <i>Pseudomonas fluorescens</i> producing both phenazine-1-carboxylic acid and cyclic lipopeptide for the biocontrol of take-all disease of wheat. <i>European Journal of Plant Pathology</i> , <b>2017</b> , 149, 683-694	2.1	11
15	Global landscape of phenazine biosynthesis and biodegradation reveals species-specific colonization patterns in agricultural soils and crop microbiomes. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
14	Differential Response of Wheat Cultivars to <i>Pseudomonas brassicacearum</i> and Take-All Decline Soil. <i>Phytopathology</i> , <b>2018</b> , 108, 1363-1372	3.8	10
13	Phenazine-1-Carboxylic Acid-Producing Bacteria Enhance the Reactivity of Iron Minerals in Dryland and Irrigated Wheat Rhizospheres. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 14273-14284	10.3	9
12	Exploring the Pathogenicity of Q8r1-96 and Other Strains of the Complex on Tomato. <i>Plant Disease</i> , <b>2020</b> , 104, 1026-1031	1.5	8
11	Rhizosphere Competence of Wild-Type and Genetically Engineered <i>Pseudomonas brassicacearum</i> Is Affected by the Crop Species. <i>Phytopathology</i> , <b>2016</b> , 106, 554-61	3.8	7

10	Glutamic acid reshapes the plant microbiota to protect plants against pathogens.. <i>Microbiome</i> , <b>2021</b> , 9, 244	16.6	6
9	2-79 Transformed with Pyrrolnitrin Biosynthesis Genes Has Improved Biocontrol Activity Against Soilborne Pathogens of Wheat and Canola. <i>Phytopathology</i> , <b>2020</b> , 110, 1010-1017	3.8	5
8	An integrated workflow for phenazine-modifying enzyme characterization. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2018</b> , 45, 567-577	4.2	4
7	Native yeast and non-yeast fungal communities of Cabernet Sauvignon berries from two Washington State vineyards, and persistence in spontaneous fermentation. <i>International Journal of Food Microbiology</i> , <b>2021</b> , 350, 109225	5.8	4
6	Real-time PCR assays for the quantification of native yeast DNA in grape berry and fermentation extracts. <i>Journal of Microbiological Methods</i> , <b>2020</b> , 168, 105794	2.8	3
5	Rhizosphere plant-microbe interactions under water stress. <i>Advances in Applied Microbiology</i> , <b>2021</b> , 115, 65-113	4.9	3
4	Role of Secondary Metabolites in Root Disease Suppression. <i>ACS Symposium Series</i> , <b>1994</b> , 330-347	0.4	2
3	Functional Analysis of Phenazine Biosynthesis Genes in spp. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	2
2	Development of platforms for functional characterization and production of phenazines using a multi-chassis approach via CRAGE. <i>Metabolic Engineering</i> , <b>2021</b> , 69, 188-188	9.7	1
1	Evaluation of the Phytotoxicity of 2,4-Diacetylphloroglucinol and Q8r1-96 on Different Wheat Cultivars. <i>Phytopathology</i> , <b>2021</b> , PHYTO07200315R	3.8	0