Stephane Compant

List of Publications by Citations

68 papers	8,323 citations	29 h-index	75 g-index
75 ext. papers	10,618 ext. citations	5.4 avg, IF	6.31 L-index

#	Paper	IF	Citations
68	Use of plant growth-promoting bacteria for biocontrol of plant diseases: principles, mechanisms of action, and future prospects. *Applied and Environmental Microbiology*, **2005**, 71, 4951-9	4.8	1607
67	Plant growth-promoting bacteria in the rhizo- and endosphere of plants: Their role, colonization, mechanisms involved and prospects for utilization. *Soil Biology and Biochemistry*, **2010**, 42, 669-678	7.5	1313
66	The Hidden World within Plants: Ecological and Evolutionary Considerations for Defining Functioning of Microbial Endophytes. *Microbiology and Molecular Biology Reviews*, **2015**, 79, 293-320	13.2	1229
65	Endophytic colonization of Vitis vinifera L. by plant growth-promoting bacterium Burkholderia sp. strain PsJN. *Applied and Environmental Microbiology*, **2005**, 71, 1685-93	4.8	566
64	A review on the plant microbiome: Ecology, functions, and emerging trends in microbial application. *Journal of Advanced Research*, **2019**, 19, 29-37	13	444
63	Metabolic potential of endophytic bacteria. *Current Opinion in Biotechnology*, **2014**, 27, 30-7	11.4	354
62	Climate change effects on beneficial plant-microorganism interactions. *FEMS Microbiology Ecology*, **2010**, 73, 197-214	4.3	331
61	Endophytes of grapevine flowers, berries, and seeds: identification of cultivable bacteria, comparison with other plant parts, and visualization of niches of colonization. *Microbial Ecology*, **2011**, 62, 188-97	4.4	321
60	Diversity and occurrence of Burkholderia spp. in the natural environment. *FEMS Microbiology Reviews*, **2008**, 32, 607-26	15.1	284
59	The Phyllosphere: Microbial Jungle at the Plant Climate Interface. *Annual Review of Ecology, Evolution, and Systematics*, **2016**, 47, 1-24	13.5	194
58	Ecology and Genomic Insights into Plant-Pathogenic and Plant-Nonpathogenic Endophytes. *Annual Review of Phytopathology*, **2017**, 55, 61-83	10.8	192
57	A New Approach to Modify Plant Microbiomes and Traits by Introducing Beneficial Bacteria at Flowering into Progeny Seeds. *Frontiers in Microbiology*, **2017**, 8, 11	5.7	191
56	Endophytic colonization of Vitis vinifera L. by Burkholderia phytofirmans strain PsJN: from the rhizosphere to inflorescence tissues. *FEMS Microbiology Ecology*, **2008**, 63, 84-93	4.3	167
55	Use of beneficial bacteria and their secondary metabolites to control grapevine pathogen diseases. *BioControl*, **2013**, 58, 435-455	2.3	74
54	Surfactin variants mediate species-specific biofilm formation and root colonization in Bacillus. *Environmental Microbiology*, **2016**, 18, 2634-45	5.2	62
53	Shared and host-specific microbiome diversity and functioning of grapevine and accompanying weed plants. *Environmental Microbiology*, **2017**, 19, 1407-1424	5.2	60
52	Advances in Elucidating Beneficial Interactions Between Plants, Soil, and Bacteria. *Advances in Agronomy*, **2013**, 381-445	7.7	57

51	The plant endosphere world - bacterial life within plants. *Environmental Microbiology*, **2021**, 23, 1812-1829	5.2	48
50	Interkingdom transfer of the acne-causing agent, Propionibacterium acnes, from human to grapevine. *Molecular Biology and Evolution*, **2014**, 31, 1059-65	8.3	45
49	Characterization of endophytic bacteria from cucurbit fruits with potential benefits to agriculture in melons (Cucumis melo L.). *FEMS Microbiology Ecology*, **2015**, 91,	4.3	41
48	Commentary: seed bacterial inhabitants and their routes of colonization. *Plant and Soil*, **2018**, 422, 129-134	4.2	41
47	Bacterial niches inside seeds of Cucumis melo L.. *Plant and Soil*, **2018**, 422, 101-113	4.2	39
46	Biocontrol and plant growth promoting properties of Streptomyces mutabilis strain IA1 isolated from a Saharan soil on wheat seedlings and visualization of its niches of colonization. *South African Journal of Botany*, **2016**, 105, 234-239	2.9	39
45	Bacteria in a wood fungal disease: characterization of bacterial communities in wood tissues of esca-foliar symptomatic and asymptomatic grapevines. *Frontiers in Microbiology*, **2015**, 6, 1137	5.7	36
44	The 125th anniversary of the first postulation of the soil origin of endophytic bacteria – a tribute to M.L.V. Galippe. *Plant and Soil*, **2012**, 356, 299-301	4.2	34
43	Grapevine colonization by endophytic bacteria shifts secondary metabolism and suggests activation of defense pathways. *Plant and Soil*, **2016**, 405, 155-175	4.2	32
42	Beneficial Endophytic Bacteria- Interaction for Crop Enhancement and Resistance to Phytopathogens. *Frontiers in Microbiology*, **2019**, 10, 2888	5.7	29
41	Not Just a Pathogen? Description of a Plant-Beneficial Strain. *Frontiers in Microbiology*, **2019**, 10, 1409	5.7	23
40	Genome Analysis, Ecology, and Plant Growth Promotion of the Endophyte Burkholderia phytofirmans Strain PsJN **2013**, 865-874		19
39	In vitro and in planta fungicide properties of ozonated water against the esca-associated fungus Phaeoacremonium aleophilum. *Scientia Horticulturae*, **2015**, 189, 184-191	4.1	18
38	Major changes in grapevine wood microbiota are associated with the onset of esca, a devastating trunk disease. *Environmental Microbiology*, **2020**, 22, 5189-5206	5.2	18
37	Draft Genome Sequence of Biocontrol Agent Pythium oligandrum Strain Po37, an Oomycota. *Genome Announcements*, **2016**, 4,		17
36	In Planta Colonization and Role of T6SS in Two Rice Endophytes. *Molecular Plant-Microbe Interactions*, **2020**, 33, 349-363	3.6	17
35	Comparative genome analysis of the vineyard weed endophyte Pseudomonas viridiflava CDRTc14 showing selective herbicidal activity. *Scientific Reports*, **2017**, 7, 17336	4.9	15
34	Deciphering the Niches of Colonisation of Vitis vinifera L. by the Esca-Associated Fungus Phaeoacremonium aleophilum Using a gfp Marked Strain and Cutting Systems. *PLoS ONE*, **2015**, 10, e0126851	3.7	15

33	Interaction between endophytic Proteobacteria strains and Serendipita indica enhances biocontrol activity against fungal pathogens. *Plant and Soil*, **2020**, 451, 277-305	4.2	14
32	Draft Genome Sequence of Phaeomoniella chlamydospora Strain RR-HG1, a Grapevine Trunk Disease (Esca)-Related Member of the Ascomycota. *Genome Announcements*, **2014**, 2,		13
31	Colonization of L. by the Endophyte sp. Strain T154: Biocontrol Activity Against. *Frontiers in Plant Science*, **2020**, 11, 1170	6.2	13
30	Variations in Early Response of Grapevine Wood Depending on Wound and Inoculation Combinations with Phaeoacremonium aleophilum and Phaeomoniella chlamydospora. *Frontiers in Plant Science*, **2016**, 7, 268	6.2	13
29	Maternal effects shape the seed mycobiome in Quercus petraea. *New Phytologist*, **2021**, 230, 1594-1608	9.8	13
28	The interaction between Rhizoglomus irregulare and hyphae attached phosphate solubilizing bacteria increases plant biomass of Solanum lycopersicum. *Microbiological Research*, **2020**, 240, 126556	5.3	12
27	Complete genome sequence of the heavy metal resistant bacterium AR33 and comparison with related. *Standards in Genomic Sciences*, **2017**, 12, 2		11
26	Visualization of grapevine root colonization by the Saharan soil isolate Saccharothrix algeriensis NRRL B-24137 using DOPE-FISH microscopy. *Plant and Soil*, **2013**, 370, 583-591	4.2	11
25	Transcriptional analysis of the interaction between the oomycete biocontrol agent, Pythium oligandrum , and the roots of Vitis vinifera L.. *Biological Control*, **2018**, 120, 26-35	3.8	10
24	Niches and routes of transmission of Xanthomonas citri pv. fuscans to bean seeds. *Plant and Soil*, **2018**, 422, 115-128	4.2	10
23	The Saharan isolate Saccharothrix algeriensis NRRL B-24137 induces systemic resistance in Arabidopsis thaliana seedlings against Botrytis cinerea. *Plant and Soil*, **2014**, 374, 423-434	4.2	10
22	Humic Acid Enhances the Growth of Tomato Promoted by Endophytic Bacterial Strains Through the Activation of Hormone-, Growth-, and Transcription-Related Processes. *Frontiers in Plant Science*, **2020**, 11, 582267	6.2	10
21	Agromyces aureus sp. nov., isolated from the rhizosphere of Salix caprea L. grown in a heavy-metal-contaminated soil. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 3749-3754	2.2	9
20	Trunk Surgery as a Tool to Reduce Foliar Symptoms in Diseases of the Esca Complex and Its Influence on Vine Wood Microbiota. *Journal of Fungi (Basel, Switzerland)*, **2021**, 7,	5.6	8
19	Bacteria associated with wood tissues of Esca-diseased grapevines: functional diversity and synergy with Fomitiporia mediterranea to degrade wood components. *Environmental Microbiology*, **2021**, 23, 6104-6121	5.2	7
18	Comparative Genomic Analysis of Strains from Grapevine, Soil and Weed Highlights Potential Mechanisms in Pathogenicity and Endophytic Lifestyle. *Journal of Fungi (Basel, Switzerland)*, **2020**, 6,	5.6	6
17	Investigating the durable effect of the hot water treatment used in nurseries on pathogenic fungi inhabiting grapevine wood and involved in Grapevine Trunk Diseases. *Crop Protection*, **2017**, 100, 203-210	2.7	6
16	Control of T-2 toxin in Fusarium langsethiae and Geotrichum candidum co-culture. *Arhiv Za Higijenu Rada I Toksikologiju*, **2012**, 63, 447-56	1.7	6

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15	Activity of Novel Copper(II)-Based Formulations to Inhibit the Esca-Associated Fungus in Grapevine Propagation Material. *Frontiers in Plant Science*, **2021**, 12, 649694	6.2	6
14	Roots and Panicles of the C4 Model Grasses (L). and Host Distinct Bacterial Assemblages With Core Taxa Conserved Across Host Genotypes and Sampling Sites. *Frontiers in Microbiology*, **2018**, 9, 2708	5.7	6
13	in Olive: A Review of Control Attempts and Current Management. *Microorganisms*, **2021**, 9,	4.9	6
12	Differences in resource use lead to coexistence of seed-transmitted microbial populations. *Scientific Reports*, **2019**, 9, 6648	4.9	5
11	High-Quality Draft Genome Sequence of an Endophytic Pseudomonas viridiflava Strain with Herbicidal Properties against Its Host, the Weed Lepidium draba L. *Genome Announcements*, **2016**, 4,		5
10	The Biocontrol Root-Oomycete, , Triggers Grapevine Resistance and Shifts in the Transcriptome of the Trunk Pathogenic Fungus,. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
9	Draft Genome Sequence of the Root-Colonizing Fungus B97. *Genome Announcements*, **2017**, 5,		3
8	Maternal effects and environmental filtering shape seed fungal communities in oak trees		3
7	Beneficial Insects Deliver Plant Growth-Promoting Bacterial Endophytes between Tomato Plants. *Microorganisms*, **2021**, 9,	4.9	3
6	Differing Alterations of Two Esca Associated Fungi, Phaeoacremonium aleophilum and Phaeomoniella chlamydospora on Transcriptomic Level, to Co-Cultured Vitis vinifera L. calli. *PLoS ONE*, **2016**, 11, e0163344	3.7	3
5	Use of DOPE-FISH Tool to Better Visualize Colonization of Plants by Beneficial Bacteria? An Example with Saccharothrix algeriensis NRRL B-24137 Colonizing Grapevine Plants **2013**, 929-931		2
4	Visualization of Niches of Colonization of Firmicutes with Bacillus spp. in the Rhizosphere, Rhizoplane, and Endorhiza of Grapevine Plants at Flowering Stage of Development by FISH Microscopy **2013**, 423-427		2
3	Soil Warming Effects on Beneficial Plant Microbe Interactions **2013**, 1045-1054		1
2	Grapevine rootstock and soil microbiome interactions: Keys for a resilient viticulture.. *Horticulture Research*, **2022**,	7.7	1
1	OBSERVATION OF ENDOPHYTIC BACILLUS SPP. AND OTHER TAXA OF BACTERIA INSIDE FRUITS AND SEEDS OF GRAPEVINE PLANTS. *Acta Horticulturae*, **2012**, 23-27	0.3	