Gail M Preston

List of Publications by Year
in descending order

74 papers	4,550 citations	87888 38 h-index	110387 64 g-index
81 all docs	81 docs citations	81 times ranked	5657 citing authors

#	Article	IF	Citations
1	Genomic and genetic analyses of diversity and plant interactions of Pseudomonas fluorescens. Genome Biology, 2009, 10, R51.	9.6	370
2	<i>Pseudomonas syringae</i> pv. <i>tomato</i> DC3000 Uses Constitutive and Apoplast-Induced Nutrient Assimilation Pathways to Catabolize Nutrients That Are Abundant in the Tomato Apoplast. Molecular Plant-Microbe Interactions, 2008, 21, 269-282.	2.6	213
3	Type III secretion in plant growth-promoting Pseudomonas fluorescens SBW25. Molecular Microbiology, 2008, 41, 999-1014.	2.5	190
4	Plant perceptions of plant growth-promoting Pseudomonas. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 907-918.	4.0	180
5	The <i>Pseudomonas syringae</i> pv. tomato HrpW Protein Has Domains Similar to Harpins and Pectate Lyases and Can Elicit the Plant Hypersensitive Response and Bind to Pectate. Journal of Bacteriology, 1998, 180, 5211-5217.	2.2	180
6	Pseudomonas syringaepv.tomato: the right pathogen, of the right plant, at the right time. Molecular Plant Pathology, 2000, 1, 263-275.	4.2	158
7	Bacterial mycophagy: definition and diagnosis of a unique bacterialâ€“fungal interaction. New Phytologist, 2008, 177, 859-876.	7.3	150
8	Genes encoding a cellulosic polymer contribute toward the ecological success of Pseudomonas fluorescens SBW25 on plant surfaces. Molecular Ecology, 2003, 12, 3109-3121.	3.9	144
9	Oxygenase-catalyzed ribosome hydroxylation occurs in prokaryotes and humans. Nature Chemical Biology, 2012, 8, 960-962.	8.0	135
10	Nitrilase enzymes and their role in plantâ€“microbe interactions. Microbial Biotechnology, 2009, 2, 441-451.	4.2	118
11	Quantitativein situassay of salicylic acid in tobacco leaves using a genetically modified biosensor strain ofAcinetobactersp. ADP1. Plant Journal, 2006, 46, 1073-1083.	5.7	115
12	Metal Hyperaccumulation Armors Plants against Disease. PLoS Pathogens, 2010, 6, e1001093.	4.7	111
13	The HrpZ Proteins of<i>Pseudomonas syringae</i>pvs.<i>syringae, glycinea,</i>and<i>tomato</i>Are Encoded by an Operon Containing<i>Yersinia ysc</i>Homologs and Elicit the Hypersensitive Response in Tomato but not Soybean. Molecular Plant-Microbe Interactions, 1995, 8, 717.	2.6	109
14	The impact of transition metals on bacterial plant disease. FEMS Microbiology Reviews, 2013, 37, 495-519.	8.6	105
15	Mutations in Î³-aminobutyric acid (GABA) transaminase genes in plants or Pseudomonas syringae reduce bacterial virulence. Plant Journal, 2010, 64, 318-330.	5.7	102
16	Early changes in apoplast composition associated with defence and disease in interactions between <i>Phaseolus vulgaris</i> and the halo blight pathogen <i>Pseudomonas syringae</i> Pv. phaseolicola. Plant, Cell and Environment, 2016, 39, 2172-2184.	5.7	102
17	Glycosidase and glycan polymorphism control hydrolytic release of immunogenic flagellin peptides. Science, 2019, 364, .	12.6	102
18	Negative Regulation of <i>hrp</i> Genes in <i>Pseudomonas syringae</i> by HrpV. Journal of Bacteriology, 1998, 180, 4532-4537.	2.2	96

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19	Reactive oxygen and oxidative stress tolerance in plant pathogenic Pseudomonas. FEMS Microbiology Letters, 2012, 327, 1-8.	1.8	94
20	Characterization of the <i>hrpC</i> and <i>hrpRS</i> Operons of <i>Pseudomonas syringae</i> Pathovars Syringae, Tomato, and Glycinea and Analysis of the Ability of <i>hrpF</i> , <i>hrpG</i> , <i>hrcC</i> , <i>hrpT</i> , and <i>hrpV</i> Mutants To Elicit the Hypersensitive Response and Disease in Plants. Journal of Bacteriology, 1998, 180, 4523-4531.	2.2	88
21	The current status of the elemental defense hypothesis in relation to pathogens. Frontiers in Plant Science, 2013, 4, 395.	3.6	79
22	Species-specific antimicrobial activity of essential oils and enhancement by encapsulation in mesoporous silica nanoparticles. Industrial Crops and Products, 2018, 122, 582-590.	5.2	78
23	Metropolitan Microbes: Type III Secretion in Multihost Symbionts. Cell Host and Microbe, 2007, 2, 291-294.	11.0	73
24	Regulatory interactions between the Hrp type III protein secretion system and coronatine biosynthesis in Pseudomonas syringae pv. tomato DC3000. Microbiology (United Kingdom), 2000, 146, 2447-2456.	1.8	71
25	Bacterial genomics and adaptation to life on plants: implications for the evolution of pathogenicity and symbiosis. Current Opinion in Microbiology, 1998, 1, 589-597.	5.1	65
26	The Infiltration-centrifugation Technique for Extraction of Apoplastic Fluid from Plant Leaves Using Phaseolus vulgaris as an Example. Journal of Visualized Experiments, 2014, , .	0.3	63
27	Discovering the RNA-Binding Proteome of Plant Leaves with an Improved RNA Interactome Capture Method. Biomolecules, 2020, 10, 661.	4.0	63
28	Human oxygen sensing may have origins in prokaryotic elongation factor Tu prolyl-hydroxylation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13331-13336.	7.1	60
29	In vivo expression technology strategies: valuable tools for biotechnology. Current Opinion in Biotechnology, 2000, 11, 440-444.	6.6	59
30	Enhancing cinnamon essential oil activity by nanoparticle encapsulation to control seed pathogens. Industrial Crops and Products, 2018, 124, 755-764.	5.2	57
31	Linking System-Wide Impacts of RNA Polymerase Mutations to the Fitness Cost of Rifampin Resistance in Pseudomonas aeruginosa. MBio, 2014, 5, e01562.	4.1	55
32	A conserved mechanism for nitrile metabolism in bacteria and plants. Plant Journal, 2009, 57, 243-253.	5.7	54
33	<i>Pseudomonas fluorescens</i> BBc6R8 type III secretion mutants no longer promote ectomycorrhizal symbiosis. Environmental Microbiology Reports, 2011, 3, 203-210.	2.4	53
34	Phytomonas: Trypanosomatids Adapted to Plant Environments. PLoS Pathogens, 2015, 11, e1004484.	4.7	52
35	Profiling the secretomes of plant pathogenic Proteobacteria. FEMS Microbiology Reviews, 2005, 29, 331-360.	8.6	50
36	Genetic Characterization of Pseudomonas fluorescens SBW25 rsp Gene Expression in the Phytosphere and In Vitro. Journal of Bacteriology, 2005, 187, 8477-8488.	2.2	48

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37	Comparative Analysis of Metabolic Networks Provides Insight into the Evolution of Plant Pathogenic and Nonpathogenic Lifestyles in Pseudomonas. Molecular Biology and Evolution, 2011, 28, 483-499.	8.9	45
38	Profiling the secretomes of plant pathogenic Proteobacteria. FEMS Microbiology Reviews, 2005, 29, 331-360.	8.6	44
39	<i>Pseudomonas syringae</i> pv. <i>syringae</i> B728a hydrolyses indoleâ€3â€acetonitrile to the plant hormone indoleâ€3â€acetic acid. Molecular Plant Pathology, 2009, 10, 857-865.	4.2	39
40	The <i>Sinorhizobium</i> (<i>Ensifer</i>) <i>fredii</i> HH103 Type 3 Secretion System Suppresses Early Defense Responses to Effectively Nodulate Soybean. Molecular Plant-Microbe Interactions, 2015, 28, 790-799.	2.6	38
41	The metabolic interface between Pseudomonas syringae and plant cells. Current Opinion in Microbiology, 2011, 14, 31-38.	5.1	37
42	Agroinfiltration Reduces ABA Levels and Suppresses Pseudomonas syringae-Elicited Salicylic Acid Production in Nicotiana tabacum. PLoS ONE, 2010, 5, e8977.	2.5	37
43	<i>Pseudomonas fluorescens</i> NZI7 repels grazing by <i>C. elegans</i>, a natural predator. ISME Journal, 2013, 7, 1126-1138.	9.8	34
44	Uncoupling of reactive oxygen species accumulation and defence signalling in the metal hyperaccumulator plant <i><scp>N</scp>occaea caerulescens</i>. New Phytologist, 2013, 199, 916-924.	7.3	33
45	The effect of plant domestication on host control of the microbiota. Communications Biology, 2021, 4, 936.	4.4	31
46	Integrated bioinformatic and phenotypic analysis of RpoN-dependent traits in the plant growth-promoting bacterium Pseudomonas fluorescens SBW25. Environmental Microbiology, 2007, 9, 3046-3064.	3.8	30
47	Increased Î²-Cyanoalanine Nitrilase Activity Improves Cyanide Tolerance and Assimilation in Arabidopsis. Molecular Plant, 2014, 7, 231-243.	8.3	30
48	<i>Pseudomonas protegens</i> Pf-5 Causes Discoloration and Pitting of Mushroom Caps Due to the Production of Antifungal Metabolites. Molecular Plant-Microbe Interactions, 2014, 27, 733-746.	2.6	26
49	The genomic basis of adaptation to the fitness cost of rifampicin resistance in<i>Pseudomonas aeruginosa</i>. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152452.	2.6	25
50	Methods to Quantify Biotic-Induced Stress in Plants. Methods in Molecular Biology, 2018, 1734, 241-255.	0.9	25
51	Pseudomonas syringae: enterprising epiphyte and stealthy parasite. Microbiology (United Kingdom), 2019, 165, 251-253.	1.8	25
52	Profiling the extended phenotype of plant pathogens. Molecular Plant Pathology, 2017, 18, 443-456.	4.2	24
53	A low frequency persistent reservoir of a genomic island in a pathogen population ensures island survival and improves pathogen fitness in a susceptible host. Environmental Microbiology, 2016, 18, 4144-4152.	3.8	22
54	A Bayesian Approach to the Evolution of Metabolic Networks on a Phylogeny. PLoS Computational Biology, 2010, 6, e1000868.	3.2	18

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55	Agromonas: a rapid disease assay for <i>Pseudomonas syringae</i> growth in agroinfiltrated leaves. Plant Journal, 2021, 105, 831-840.	5.7	17
56	Protein domains and architectural innovation in plant-associated Proteobacteria. BMC Genomics, 2005, 6, 17.	2.8	13
57	Plant RNA Interactome Capture: Revealing the Plant RBPome. Trends in Plant Science, 2017, 22, 449-451.	8.8	12
58	Variation in defence strategies in the metal hyperaccumulator plant <i>Noccaea caerulescens</i> is indicative of synergies and trade-offs between forms of defence. Royal Society Open Science, 2019, 6, 172418.	2.4	12
59	Life of microbes that interact with plants. Microbial Biotechnology, 2009, 2, 412-415.	4.2	11
60	Local adaptation is associated with zinc tolerance in Pseudomonas endophytes of the metal-hyperaccumulator plant Noccaea caerulescens. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160648.	2.6	11
61	Pseudomonas expression of an oxygen sensing prolyl hydroxylase homologue regulates neutrophil host responses in vitro and in vivo. Wellcome Open Research, 2017, 2, 104.	1.8	11
62	Supercoiling of an excised genomic island represses effector gene expression to prevent activation of host resistance. Molecular Microbiology, 2018, 110, 444-454.	2.5	10
63	From macro to micro: a combined bioluminescenceâ€fluorescence approach to monitor bacterial localization. Environmental Microbiology, 2021, 23, 2070-2085.	3.8	9
64	How bacteria overcome flagellin pattern recognition in plants. Current Opinion in Plant Biology, 2022, 67, 102224.	7.1	9
65	AgroLux: bioluminescent <i>Agrobacterium</i> to improve molecular pharming and study plant immunity. Plant Journal, 2021, 108, 600-612.	5.7	7
66	Pleiotropic constraints promote the evolution of cooperation in cellular groups. PLoS Biology, 2022, 20, e3001626.	5.6	5
67	The Type III Secretion Systems of Plant-Associated Pseudomonads: Genes and Proteins on the Move. , 2004, , 181-219.		2
68	The Role of Pseudomonas Syringae and Erwinia Chrysanthemi Hrp Gene Products in Plant Interactions. Current Plant Science and Biotechnology in Agriculture, 1994, , 49-56.	0.0	2
69	Reproductive consequences of transient pathogen exposure across host genotypes and generations. Ecology and Evolution, 2022, 12, e8720.	1.9	2
70	Genomic Analysis of Plant Pathogenic Bacteria. , 0, , 392-418.		1
71	Measurement of Oxygen Status in Arabidopsis Leaves Undergoing the Hypersensitive Response During Pseudomonas Infection. Methods in Molecular Biology, 2017, 1670, 71-76.	0.9	1
72	Extracellular Proteins as Determinants of Pathogenicity in Pseudomonas syringae. Developments in Plant Pathology, 1997, , 325-332.	0.1	1

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73	Approaching the domesticated plant holobiont from a community evolution perspective. Microbiology (United Kingdom), 2022, 168, .	1.8	1
74	Tradeâ€offs in defence to pathogen species revealed in expanding nematode populations. Journal of Evolutionary Biology, 2022, 35, 1002-1011.	1.7	0