

Jean Beagle Ristaino

List of Publications by Year in descending order

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100
papers

8,806
citations

66343

42
h-index

45317

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103
all docs

103
docs citations

103
times ranked

7044
citing authors

#	ARTICLE	IF	CITATIONS
1	Microsatellite Markers from <i>Peronospora tabacina</i> , the Cause of Blue Mold of Tobacco, Reveal Species Origin, Population Structure, and High Gene Flow. <i>Phytopathology</i> , 2022, 112, 422-434.	2.2	2
2	The persistent threat of emerging plant disease pandemics to global food security. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	261
3	Global historic pandemics caused by the FAM-1 genotype of <i>Phytophthora infestans</i> on six continents. <i>Scientific Reports</i> , 2021, 11, 12335.	3.3	14
4	Real-time monitoring of plant stresses via chemiresistive profiling of leaf volatiles by a wearable sensor. <i>Matter</i> , 2021, 4, 2553-2570.	10.0	93
5	Population structure of <i>Phytophthora infestans</i> collected on potato and tomato in Italy. <i>Plant Pathology</i> , 2021, 70, 2165-2178.	2.4	8
6	Integrated microneedle-smartphone nucleic acid amplification platform for in-field diagnosis of plant diseases. <i>Biosensors and Bioelectronics</i> , 2021, 187, 113312.	10.1	38
7	Potatoes, Citrus and Coffee Under Threat. <i>Plant Pathology in the 21st Century</i> , 2021, , 3-19.	0.9	2
8	Protective plant immune responses are elicited by bacterial outer membrane vesicles. <i>Cell Reports</i> , 2021, 34, 108645.	6.4	39
9	Detection of <i>Phytophthora infestans</i> by Loop-Mediated Isothermal Amplification, Real-Time LAMP, and Droplet Digital PCR. <i>Plant Disease</i> , 2020, 104, 708-716.	1.4	44
10	The Importance of Mycological and Plant Herbaria in Tracking Plant Killers. <i>Frontiers in Ecology and Evolution</i> , 2020, 7, .	2.2	25
11	DNA Extraction from Plant Leaves Using a Microneedle Patch. <i>Current Protocols in Plant Biology</i> , 2020, 5, e20104.	2.8	20
12	CHAPTER 6: The Threat of Late Blight to Global Food Security. , 2020, , 101-132.		11
13	Genetic Structure and Subclonal Variation of Extant and Recent U.S. Lineages of <i>Phytophthora infestans</i> . <i>Phytopathology</i> , 2019, 109, 1614-1627.	2.2	20
14	Non-invasive plant disease diagnostics enabled by smartphone-based fingerprinting of leaf volatiles. <i>Nature Plants</i> , 2019, 5, 856-866.	9.3	191
15	Extraction of Plant DNA by Microneedle Patch for Rapid Detection of Plant Diseases. <i>ACS Nano</i> , 2019, 13, 6540-6549.	14.6	99
16	<i>Phytophthora acaciae</i> sp. nov., a new species causing gummosis of black wattle in Brazil. <i>Mycologia</i> , 2019, 111, 445-455.	1.9	9
17	Population structure and migration of the Tobacco Blue Mold Pathogen, <i>Peronospora tabacina</i> , into North America and Europe. <i>Molecular Ecology</i> , 2018, 27, 737-751.	3.9	9
18	Large sub-clonal variation in <i>Phytophthora infestans</i> from recent severe late blight epidemics in India. <i>Scientific Reports</i> , 2018, 8, 4429.	3.3	43

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19	A Risk Analysis of Precision Agriculture Technology to Manage Tomato Late Blight. <i>Sustainability</i> , 2018, 10, 3108.	3.2	5
20	Population Structure of <i>Pseudocercospora fijiensis</i> in Costa Rica Reveals Shared Haplotype Diversity with Southeast Asian Populations. <i>Phytopathology</i> , 2017, 107, 1541-1548.	2.2	3
21	Genetic Variation within Clonal Lineages of <i>Phytophthora infestans</i> Revealed through Genotyping-By-Sequencing, and Implications for Late Blight Epidemiology. <i>PLoS ONE</i> , 2016, 11, e0165690.	2.5	26
22	Historic Late Blight Outbreaks Caused by a Widespread Dominant Lineage of <i>Phytophthora infestans</i> (Mont.) de Bary. <i>PLoS ONE</i> , 2016, 11, e0168381.	2.5	51
23	Genetic modification for disease resistance: a position paper. <i>Food Security</i> , 2016, 8, 865-870.	5.3	6
24	Ecosystem Services Connect Environmental Change to Human Health Outcomes. <i>EcoHealth</i> , 2016, 13, 443-449.	2.0	18
25	“What a Painfully Interesting Subject”: Charles Darwin's Studies of Potato Late Blight. <i>BioScience</i> , 2016, 66, 1035-1045.	4.9	21
26	Genomic Characterization of a South American <i>Phytophthora</i> Hybrid Mandates Reassessment of the Geographic Origins of <i>Phytophthora infestans</i> . <i>Molecular Biology and Evolution</i> , 2016, 33, 478-491.	8.9	48
27	First Report of Gummosis Caused by <i>Phytophthora frigid</i> a on Black Wattle in Brazil. <i>Plant Disease</i> , 2016, 100, 2336-2336.	1.4	2
28	Fungicide Sensitivity of U.S. Genotypes of <i>Phytophthora infestans</i> to Six Oomycete-Targeted Compounds. <i>Plant Disease</i> , 2015, 99, 659-666.	1.4	68
29	Five Reasons to Consider <i>Phytophthora infestans</i> a Reemerging Pathogen. <i>Phytopathology</i> , 2015, 105, 966-981.	2.2	254
30	Mitochondrial genome sequences reveal evolutionary relationships of the <i>Phytophthora</i> 1c clade species. <i>Current Genetics</i> , 2015, 61, 567-577.	1.7	23
31	The Top 10 oomycete pathogens in molecular plant pathology. <i>Molecular Plant Pathology</i> , 2015, 16, 413-434.	4.2	695
32	An Ephemeral Sexual Population of <i>Phytophthora infestans</i> in the Northeastern United States and Canada. <i>PLoS ONE</i> , 2014, 9, e116354.	2.5	38
33	Persistence of the Mitochondrial Lineage Responsible for the Irish Potato Famine in Extant New World <i>Phytophthora infestans</i> . <i>Molecular Biology and Evolution</i> , 2014, 31, 1414-1420.	8.9	39
34	Evidence for presence of the founder Ia mtDNA haplotype of <i>Phytophthora infestans</i> in 19th century potato tubers from the Rothamsted archives. <i>Plant Pathology</i> , 2013, 62, 492-500.	2.4	13
35	The 2009 Late Blight Pandemic in the Eastern United States “ Causes and Results. <i>Plant Disease</i> , 2013, 97, 296-306.	1.4	114
36	Reconstructing genome evolution in historic samples of the Irish potato famine pathogen. <i>Nature Communications</i> , 2013, 4, 2172.	12.8	103

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37	Parallels in Intercellular Communication in Oomycete and Fungal Pathogens of Plants and Humans. PLoS Pathogens, 2012, 8, e1003028.	4.7	14
38	Recent Genotypes of <i>Phytophthora infestans</i> in the Eastern United States Reveal Clonal Populations and Reappearance of Mefenoxam Sensitivity. Plant Disease, 2012, 96, 1323-1330.	1.4	102
39	A Universal Microarray Detection Method for Identification of Multiple <i>Phytophthora</i> spp. Using Padlock Probes. Phytopathology, 2012, 102, 635-645.	2.2	16
40	A Lucid Key to the Common Species of <i>Phytophthora</i> . Plant Disease, 2012, 96, 897-903.	1.4	16
41	Ten polymorphic microsatellite loci identified from a small insert genomic library for <i>Peronospora tabacina</i> . Mycologia, 2012, 104, 633-640.	1.9	12
42	A rebuttal to the letter to the editor concerning "Defining species boundaries in the genus <i>Phytophthora</i> : the case of <i>Phytophthora andina</i> "™. Plant Pathology, 2012, 61, 221-223.	2.4	8
43	DNA barcoding of oomycetes with cytochrome <i>c</i> oxidase subunit I and internal transcribed spacer. Molecular Ecology Resources, 2011, 11, 1002-1011.	4.8	504
44	Detection and Quantification of <i>Peronospora tabacina</i> Using a Real-Time Polymerase Chain Reaction Assay. Plant Disease, 2011, 95, 673-682.	1.4	17
45	The Potato Late Blight pathogen in Ireland, 1846: reconnecting Irish specimens with the Moore-Berkeley correspondence. Archives of Natural History, 2011, 38, 356-359.	0.3	0
46	Genetic Structure of <i>Phytophthora infestans</i> Populations in China Indicates Multiple Migration Events. Phytopathology, 2010, 100, 997-1006.	2.2	41
47	<i>Phytophthora andina</i> sp. nov., a newly identified heterothallic pathogen of solanaceous hosts in the Andean highlands. Plant Pathology, 2010, 59, 613-625.	2.4	48
48	Genome sequence and analysis of the Irish potato famine pathogen <i>Phytophthora infestans</i> . Nature, 2009, 461, 393-398.	27.8	1,405
49	Effect of prior tillage and soil fertility amendments on dispersal of <i>Phytophthora capsici</i> and infection of pepper. European Journal of Plant Pathology, 2008, 120, 273-287.	1.7	24
50	Phylogenetic relationships of <i>Phytophthora andina</i> , a new species from the highlands of Ecuador that is closely related to the Irish potato famine pathogen <i>Phytophthora infestans</i> . Mycologia, 2008, 100, 590-602.	1.9	40
51	Fitness of Isolates of <i>Phytophthora capsici</i> Resistant to Mefenoxam from Squash and Pepper Fields in North Carolina. Plant Disease, 2008, 92, 1439-1443.	1.4	44
52	Identification of the Tobacco Blue Mold Pathogen, <i>Peronospora tabacina</i> , by Polymerase Chain Reaction. Plant Disease, 2007, 91, 685-691.	1.4	14
53	Effect of organic, sustainable, and conventional management strategies in grower fields on soil physical, chemical, and biological factors and the incidence of Southern blight. Applied Soil Ecology, 2007, 37, 202-214.	4.3	134
54	Long-term effects of organic and synthetic soil fertility amendments on soil microbial communities and the development of southern blight. Soil Biology and Biochemistry, 2007, 39, 2302-2316.	8.8	112

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55	An Andean origin of <i>Phytophthora infestans</i> inferred from mitochondrial and nuclear gene genealogies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3306-3311.	7.1	138
56	Tracking the Evolutionary History of the Potato Late Blight Pathogen with Historical Collections. <i>Outlooks on Pest Management</i> , 2006, 17, 228-231.	0.2	7
57	Mitochondrial genome sequences and molecular evolution of the Irish potato famine pathogen, <i>Phytophthora infestans</i> . <i>Current Genetics</i> , 2006, 49, 39-46.	1.7	52
58	Soil microbial biomass and activity in organic tomato farming systems: Effects of organic inputs and straw mulching. <i>Soil Biology and Biochemistry</i> , 2006, 38, 247-255.	8.8	286
59	Identity of the mtDNA haplotype(s) of <i>Phytophthora infestans</i> in historical specimens from the Irish Potato Famine. <i>Mycological Research</i> , 2004, 108, 471-479.	2.5	91
60	Optimization of Sample Size and DNA Extraction Methods to Improve PCR Detection of Different Propagules of <i>Phytophthora infestans</i> . <i>Plant Disease</i> , 2002, 86, 247-253.	1.4	24
61	<i>Phytophthora infestans</i> Populations from Tomato and Potato in North Carolina Differ in Genetic Diversity and Structure. <i>Phytopathology</i> , 2002, 92, 1189-1195.	2.2	26
62	Effect of Synthetic and Organic Soil Fertility Amendments on Southern Blight, Soil Microbial Communities, and Yield of Processing Tomatoes. <i>Phytopathology</i> , 2002, 92, 181-189.	2.2	150
63	Organic and synthetic fertility amendments influence soil microbial, physical and chemical properties on organic and conventional farms. <i>Applied Soil Ecology</i> , 2002, 19, 147-160.	4.3	470
64	Influences of organic and synthetic soil fertility amendments on nematode trophic groups and community dynamics under tomatoes. <i>Applied Soil Ecology</i> , 2002, 21, 233-250.	4.3	127
65	Tracking historic migrations of the Irish potato famine pathogen, <i>Phytophthora infestans</i> . <i>Microbes and Infection</i> , 2002, 4, 1369-1377.	1.9	82
66	Resistance to Mefenoxam and Metalaxyl Among Field Isolates of <i>Phytophthora capsici</i> Causing <i>Phytophthora</i> Blight of Bell Pepper. <i>Plant Disease</i> , 2001, 85, 1069-1075.	1.4	207
67	PCR amplification of the Irish potato famine pathogen from historic specimens. <i>Nature</i> , 2001, 411, 695-697.	27.8	185
68	Temporal Dynamics of <i>Phytophthora</i> Blight on Bell Pepper in Relation to the Mechanisms of Dispersal of Primary Inoculum of <i>Phytophthora capsici</i> in Soil. <i>Phytopathology</i> , 2000, 90, 148-156.	2.2	14
69	Commercial Fungicide Formulations Induce In Vitro Oospore Formation and Phenotypic Change in Mating Type in <i>Phytophthora infestans</i> . <i>Phytopathology</i> , 2000, 90, 1201-1208.	2.2	44
70	New Frontiers in the Study of Dispersal and Spatial Analysis of Epidemics Caused by Species in the Genus <i>Phytophthora</i> . <i>Annual Review of Phytopathology</i> , 2000, 38, 541-576.	7.8	131
71	The Importance of Dispersal Mechanisms in the Epidemiology of <i>Phytophthora</i> Blights and Downy Mildews on Crop Plants. <i>EcoHealth</i> , 1999, 5, 146-157.	0.2	14
72	Ecologically Based Approaches to Management of <i>Phytophthora</i> Blight on Bell Pepper. <i>Plant Disease</i> , 1999, 83, 1080-1089.	1.4	223

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73	Characterization of Isolates of <i>Phytophthora infestans</i> from Tomato and Potato in North Carolina from 1993 to 1995. <i>Plant Disease</i> , 1999, 83, 633-638.	1.4	35
74	The Importance of Archival and Herbarium Materials in Understanding the Role of Oospores in Late Blight Epidemics of the Past. <i>Phytopathology</i> , 1998, 88, 1120-1130.	2.2	42
75	PCR Amplification of Ribosomal DNA for Species Identification in the Plant Pathogen Genus <i>Phytophthora</i> . <i>Applied and Environmental Microbiology</i> , 1998, 64, 948-954.	3.1	157
76	Insensitivity to Ridomil Gold (Mefenoxam) Found Among Field Isolates of <i>Phytophthora capsici</i> Causing <i>Phytophthora</i> Blight on Bell Pepper in North Carolina and New Jersey. <i>Plant Disease</i> , 1998, 82, 711-711.	1.4	40
77	Autologistic Model of Spatial Pattern of <i>Phytophthora</i> Epidemic in Bell Pepper: Effects of Soil Variables on Disease Presence. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 1997, 2, 131.	1.4	113
78	Agriculture, Methyl Bromide, and the Ozone Hole: Can We Fill the Gaps?. <i>Plant Disease</i> , 1997, 81, 964-977.	1.4	189
79	Suppression of <i>Phytophthora</i> Blight in Bell Pepper by a No-Till Wheat Cover Crop. <i>Phytopathology</i> , 1997, 87, 242-249.	2.2	56
80	Rapid Detection of <i>Phytophthora infestans</i> in Late Blight-Infected Potato and Tomato Using PCR. <i>Plant Disease</i> , 1997, 81, 1042-1048.	1.4	101
81	Estimating temperature of mulched and bare soil from meteorological data. <i>Agricultural and Forest Meteorology</i> , 1996, 81, 299-323.	4.8	43
82	Soil Solarization and <i>Gliocladium virens</i> Reduce the Incidence of Southern Blight <i>Sclerotium rolfsii</i> in Bell Pepper in the Field. <i>Biocontrol Science and Technology</i> , 1996, 6, 583-594.	1.3	14
83	Detection and Quantification of <i>Phytophthora capsici</i> in Soil. <i>Phytopathology</i> , 1995, 85, 1057.	2.2	41
84	Geostatistical Analysis of <i>Phytophthora</i> Epidemic Development in Commercial Bell Pepper Fields. <i>Phytopathology</i> , 1995, 85, 191.	2.2	56
85	Isolation and Characterization of Thaxtomin-Type Phytotoxins Associated with <i>Streptomyces ipomoeae</i> . <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 1791-1794.	5.2	42
86	Influence of Isolates of <i>Gliocladium virens</i> and Delivery Systems on Biological Control of Southern Blight on Carrot and Tomato in the Field. <i>Plant Disease</i> , 1994, 78, 153.	1.4	28
87	Spatial Dynamics of Disease Symptom Expression During <i>Phytophthora</i> Epidemics in Bell Pepper. <i>Phytopathology</i> , 1994, 84, 1015.	2.2	33
88	Infection of sweetpotato fibrous roots by <i>Streptomyces ipomoeae</i> : Influence of soil water potential. <i>Soil Biology and Biochemistry</i> , 1993, 25, 185-192.	8.8	5
89	Effect of Resistance to <i>Streptomyces ipomoeae</i> on Disease, Yield, and Dry Matter Partitioning in Sweetpotato. <i>Plant Disease</i> , 1993, 77, 193.	1.4	5
90	Spatial and Temporal Dynamics of <i>Phytophthora</i> Epidemics in Commercial Bell Pepper Fields. <i>Phytopathology</i> , 1993, 83, 1312.	2.2	50

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91	Population Densities of <i>Phytophthora capsici</i> in Field Soils in Relation to Drip Irrigation, Rainfall, and Disease Incidence. <i>Plant Disease</i> , 1992, 76, 1017.	1.4	18
92	Effects of Irrigation, Sulfur, and Fumigation on <i>Streptomyces</i> Soil Rot and Yield Components in Sweetpotato. <i>Phytopathology</i> , 1992, 82, 670.	2.2	8
93	Effect of the Matric Component of Soil Water Potential on Infection of Pepper Seedlings in Soil Infested with Oospores of <i>Phytophthora capsici</i> . <i>Phytopathology</i> , 1992, 82, 792.	2.2	19
94	Effect of Solarization and <i>Gliocladium virens</i> Sclerotia of <i>Sclerotium rolfsii</i> , Soil Microbiota, and the Incidence of Southern Blight of Tomato. <i>Phytopathology</i> , 1991, 81, 1117.	2.2	55
95	Effects of Physical and Chemical Factors on the Germination of Oospores of <i>Phytophthora capsici</i> in vitro. <i>Phytopathology</i> , 1991, 81, 1541.	2.2	28
96	Influence of Rainfall, Drip Irrigation, and Inoculum Density on the Development of <i>Phytophthora</i> Root and Crown Rot Epidemics and Yield in Bell Pepper. <i>Phytopathology</i> , 1991, 81, 922.	2.2	57
97	Intraspecific Variation Among Isolates of <i>Phytophthora capsici</i> from Pepper and Cucurbit Fields in North Carolina. <i>Phytopathology</i> , 1990, 80, 1253.	2.2	80
98	Biological Control of <i>Rhizoctonia</i> Stem Canker and Black Scurf of Potato. <i>Phytopathology</i> , 1985, 75, 560.	2.2	62
99	Liquid Fermentation Technology for Experimental Production of Biocontrol Fungi. <i>Phytopathology</i> , 1984, 74, 1171.	2.2	121
100	Late blight of potato and tomato. <i>The Plant Health Instructor Index</i> , 0, , .	1.0	28