Eva H Stukenbrock

List of Publications by Year
in descending order

139	7,290	87888 38	76900 74
papers	citations	h-index	g-index

164	164	164	7009
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Emergence of a new disease as a result of interspecific virulence gene transfer. Nature Genetics, 2006, 38, 953-956.	21.4	667
2	The Origins of Plant Pathogens in Agro-Ecosystems. Annual Review of Phytopathology, 2008, 46, 75-100.	7.8	514
3	Evolution and genome architecture in fungal plant pathogens. Nature Reviews Microbiology, 2017, 15, 756-771.	28.6	378
4	Pathogenicity Determinants in Smut Fungi Revealed by Genome Comparison. Science, 2010, 330, 1546-1548.	12.6	301
5	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	4.1	275
6	Rapid emergence of pathogens in agro-ecosystems: global threats to agricultural sustainability and food security. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20160026.	4.0	240
7	Origin and Domestication of the Fungal Wheat Pathogen Mycosphaerella graminicola via Sympatric Speciation. Molecular Biology and Evolution, 2006, 24, 398-411.	8.9	216
8	The making of a new pathogen: Insights from comparative population genomics of the domesticated wheat pathogen<i>Mycosphaerella graminicola</i>and its wild sister species. Genome Research, 2011, 21, 2157-2166.	5.5	191
9	Fusion of two divergent fungal individuals led to the recent emergence of a unique widespread pathogen species. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10954-10959.	7.1	171
10	Global migration patterns in the fungal wheat pathogen Phaeosphaeria nodorum. Molecular Ecology, 2006, 15, 2895-2904.	3.9	154
11	Whole-Genome and Chromosome Evolution Associated with Host Adaptation and Speciation of the Wheat Pathogen Mycosphaerella graminicola. PLoS Genetics, 2010, 6, e1001189.	3.5	142
12	Comparative analysis of amplicon and metagenomic sequencing methods reveals key features in the evolution of animal metaorganisms. Microbiome, 2019, 7, 133.	11.1	141
13	Histone modifications rather than the novel regional centromeres of Zymoseptoria tritici distinguish core and accessory chromosomes. Epigenetics and Chromatin, 2015, 8, 41.	3.9	139
14	Community structure of arbuscular mycorrhizal fungi in undisturbed vegetation revealed by analyses of LSU rDNA sequences. Molecular Ecology, 2004, 13, 3179-3186.	3.9	137
15	The Role of Hybridization in the Evolution and Emergence of New Fungal Plant Pathogens. Phytopathology, 2016, 106, 104-112.	2.2	135
16	Population Genetics of Fungal and Oomycete Effectors Involved in Gene-for-Gene Interactions. Molecular Plant-Microbe Interactions, 2009, 22, 371-380.	2.6	134
17	RNA-seq-Based Gene Annotation and Comparative Genomics of Four Fungal Grass Pathogens in the Genus <i>Zymoseptoria</i> Identify Novel Orphan Genes and Species-Specific Invasions of Transposable Elements. G3: Genes, Genomes, Genetics, 2015, 5, 1323-1333.	1.8	122
18	Fungal Diversity Revisited: 2.2 to 3.8 Million Species. , 0, , 79-95.		122

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19	Evolution, selection and isolation: a genomic view of speciation in fungal plant pathogens. New Phytologist, 2013, 199, 895-907.	7.3	109
20	Rapidly Evolving Genes Are Key Players in Host Specialization and Virulence of the Fungal Wheat Pathogen Zymoseptoria tritici (Mycosphaerella graminicola). PLoS Pathogens, 2015, 11, e1005055.	4.7	107
21	Extraordinary Genome Instability and Widespread Chromosome Rearrangements During Vegetative Growth. Genetics, 2018, 210, 517-529.	2.9	103
22	Geographical variation and positive diversifying selection in the host-specific toxin SnToxA. Molecular Plant Pathology, 2007, 8, 321-332.	4.2	92
23	Expression Profiling of the Wheat Pathogen Zymoseptoria tritici Reveals Genomic Patterns of Transcription and Host-Specific Regulatory Programs. Genome Biology and Evolution, 2014, 6, 1353-1365.	2.5	92
24	A fungal pathogen induces systemic susceptibility and systemic shifts in wheat metabolome and microbiome composition. Nature Communications, 2020, 11, 1910.	12.8	85
25	The evolving fungal genome. Fungal Biology Reviews, 2014, 28, 1-12.	4.7	81
26	Highly flexible infection programs in a specialized wheat pathogen. Ecology and Evolution, 2019, 9, 275-294.	1.9	79
27	Coevolution and Life Cycle Specialization of Plant Cell Wall Degrading Enzymes in a Hemibiotrophic Pathogen. Molecular Biology and Evolution, 2013, 30, 1337-1347.	8.9	77
28	Destabilization of chromosome structure by histone H3 lysine 27 methylation. PLoS Genetics, 2019, 15, e1008093.	3.5	75
29	<i>Zymoseptoria ardabiliae</i> and <i>Z. pseudotritici</i>, two progenitor species of the septoria tritici leaf blotch fungus <i>Z. tritici</i> (synonym: <i>Mycosphaerella graminicola</i>). Mycologia, 2012, 104, 1397-1407.	1.9	71
30	Quantitative Variation in Effector Activity of ToxA Isoforms from <i>Stagonospora nodorum</i> and <i>Pyrenophora tritici-repentis</i>. Molecular Plant-Microbe Interactions, 2012, 25, 515-522.	2.6	70
31	A Population Genomics Perspective on the Emergence and Adaptation of New Plant Pathogens in Agro-Ecosystems. PLoS Pathogens, 2012, 8, e1002893.	4.7	69
32	MafFilter: a highly flexible and extensible multiple genome alignment files processor. BMC Genomics, 2014, 15, 53.	2.8	68
33	Local adaptation drives the diversification of effectors in the fungal wheat pathogen Parastagonospora nodorum in the United States. PLoS Genetics, 2019, 15, e1008223.	3.5	66
34	The Fungal Cell Wall: Structure, Biosynthesis, and Function. , 0, , 267-292.		65
35	Necrotrophic Mycoparasites and Their Genomes. , 0, , 1005-1026.		62
36	Fine-Scale Recombination Maps of Fungal Plant Pathogens Reveal Dynamic Recombination Landscapes and Intragenic Hotspots. Genetics, 2018, 208, 1209-1229.	2.9	61

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37	The genomic determinants of adaptive evolution in a fungal pathogen. Evolution Letters, 2019, 3, 299-312.	3.3	61
38	Clonal diversity and population genetic structure of arbuscular mycorrhizal fungi (Glomus spp.) studied by multilocus genotyping of single spores. Molecular Ecology, 2005, 14, 743-752.	3.9	60
39	Evidence for Extensive Recent Intron Transposition in Closely Related Fungi. Current Biology, 2011, 21, 2017-2022.	3.9	57
40	Epigenetic modifications affect the rate of spontaneous mutations in a pathogenic fungus. Nature Communications, 2021, 12, 5869.	12.8	52
41	Forward Genetics Approach Reveals Host Genotype-Dependent Importance of Accessory Chromosomes in the Fungal Wheat Pathogen <i>Zymoseptoria tritici</i>. MBio, 2017, 8, .	4.1	47
42	Development and amplification of multiple co-dominant genetic markers from single spores of arbuscular mycorrhizal fungi by nested multiplex PCR. Fungal Genetics and Biology, 2005, 42, 73-80.	2.1	44
43	Distribution of dominant arbuscular mycorrhizal fungi among five plant species in undisturbed vegetation of a coastal grassland. Mycorrhiza, 2005, 15, 497-503.	2.8	43
44	Interspecific Gene Exchange as a Driver of Adaptive Evolution in Fungi. Annual Review of Microbiology, 2018, 72, 377-398.	7.3	40
45	Seed-Derived Microbial Colonization of Wild Emmer and Domesticated Bread Wheat (<i>Triticum) Tj ETQq1 1 0.784314 rgBT /Overlock and Composition. MBio, 2020, 11, .	4.1	40
46	<i>Cercospora beticola</i>: The intoxicating lifestyle of the leaf spot pathogen of sugar beet. Molecular Plant Pathology, 2020, 21, 1020-1041.	4.2	39
47	Chromatin analyses of Zymoseptoria tritici : Methods for chromatin immunoprecipitation followed by high-throughput sequencing (ChIP-seq). Fungal Genetics and Biology, 2015, 79, 63-70.	2.1	35
48	Rapid evolution in plantâ€“microbe interactions â€“ an evolutionary genomics perspective. New Phytologist, 2020, 226, 1256-1262.	7.3	35
49	Genome compartmentalization predates species divergence in the plant pathogen genus Zymoseptoria. BMC Genomics, 2020, 21, 588.	2.8	34
50	Ecological Assembly Processes of the Bacterial and Fungal Microbiota of Wild and Domesticated Wheat Species. Phytobiomes Journal, 2020, 4, 217-224.	2.7	34
51	Increased virulence of Puccinia coronata f. sp.avenae populations through allele frequency changes at multiple putative Avr loci. PLoS Genetics, 2020, 16, e1009291.	3.5	34
52	Repeat-Induced Point Mutation and Other Genome Defense Mechanisms in Fungi. , 0, , 687-699.		32
53	Recent loss of the Dim2 DNA methyltransferase decreases mutation rate in repeats and changes evolutionary trajectory in a fungal pathogen. PLoS Genetics, 2021, 17, e1009448.	3.5	32
54	Dynamics of transposable elements in recently diverged fungal pathogens: lineage-specific transposable element content and efficiency of genome defenses. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	30

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55	Fungal Genomes and Insights into the Evolution of the Kingdom. , 0, , 619-633.		29
56	Genomewide signatures of selection in <i>EpichloÃ«</i> reveal candidate genes for host specialization. Molecular Ecology, 2018, 27, 3070-3086.	3.9	28
57	Interactions and Coadaptation in Plant Metaorganisms. Annual Review of Phytopathology, 2019, 57, 483-503.	7.8	28
58	Meiotic drive of female-inherited supernumerary chromosomes in a pathogenic fungus. ELife, 2018, 7, .	6.0	28
59	Isolation and characterization of EST-derived microsatellite loci from the fungal wheat pathogen Phaeosphaeria nodorum. Molecular Ecology Notes, 2005, 5, 931-933.	1.7	27
60	Long-Distance Dispersal of Fungi. , 0, , 309-333.		27
61	Host-specialized transcriptome of plant-associated organisms. Current Opinion in Plant Biology, 2020, 56, 81-88.	7.1	26
62	The Fungal Tree of Life: From Molecular Systematics to Genome-Scale Phylogenies. , 2017, , 1-34.		25
63	Biologically Active Secondary Metabolites from the Fungi. , 0, , 1087-1119.		25
64	Interspecific Gene Exchange Introduces High Genetic Variability in Crop Pathogen. Genome Biology and Evolution, 2019, 11, 3095-3105.	2.5	25
65	Plant Pathogenic Fungi. , 2017, , 701-726.		22
66	The transcription factor Zt107320 affects the dimorphic switch, growth and virulence of the fungal wheat pathogen <i>Zymoseptoria tritici</i>. Molecular Plant Pathology, 2020, 21, 124-138.	4.2	22
67	Life cycle specialization of filamentous pathogens â€" colonization and reproduction in plant tissues. Current Opinion in Microbiology, 2016, 32, 31-37.	5.1	21
68	Fungal Sex: The Basidiomycota. , 0, , 147-175.		20
69	Evidence for Allele-Specific Levels of Enhanced Susceptibility of Wheat mlo Mutants to the Hemibiotrophic Fungal Pathogen Magnaporthe oryzae pv. Triticum. Genes, 2020, 11, 517.	2.4	19
70	Genome-wide mapping of histone modifications during axenic growth in two species of Leptosphaeria maculans showing contrasting genomic organization. Chromosome Research, 2021, 29, 219-236.	2.2	17
71	Hybridization speeds up the emergence and evolution of a new pathogen species. Nature Genetics, 2016, 48, 113-115.	21.4	16
72	On Variant Discovery in Genomes of Fungal Plant Pathogens. Frontiers in Microbiology, 2020, 11, 626.	3.5	16

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73	Population Genomics of Fungal Plant Pathogens and the Analyses of Rapidly Evolving Genome Compartments. Methods in Molecular Biology, 2020, 2090, 337-355.	0.9	16
74	Cell Biology of Hyphal Growth. , 0, , 231-265.		15
75	The Mycelium as a Network. , 0, , 335-367.		15
76	Microsporidia: Obligate Intracellular Pathogens Within the Fungal Kingdom. , 0, , 97-113.		15
77	Fungal Ecology: Principles and Mechanisms of Colonization and Competition by Saprotrophic Fungi. , 0, , 293-308.		14
78	Colonization dynamics of <i>Pantoea agglomerans</i> in the wheat root habitat. Environmental Microbiology, 2021, 23, 2260-2273.	3.8	14
79	Identification and characterization of <i>Cercospora beticola</i> necrosisâ€inducing effector CbNip1. Molecular Plant Pathology, 2021, 22, 301-316.	4.2	14
80	Antifungal Drugs: The Current Armamentarium and Development of New Agents. , 0, , 903-922.		13
81	Genome-Wide Association and Selective Sweep Studies Reveal the Complex Genetic Architecture of DMI Fungicide Resistance in<i>Cercospora beticola</i>. Genome Biology and Evolution, 2021, 13, .	2.5	12
82	Six Key Traits of Fungi: Their Evolutionary Origins and Genetic Bases. , 2017, , 35-56.		10
83	Stress Adaptation. , 0, , 463-485.		9
84	Made for Each Other: Ascomycete Yeasts and Insects. , 0, , 945-962.		9
85	Ploidy Variation in Fungi: Polyploidy, Aneuploidy, and Genome Evolution. , 0, , 599-618.		9
86	Molecular Mechanisms Regulating Cell Fusion and Heterokaryon Formation in Filamentous Fungi. , 2017, , 215-229.		9
87	Fungi as a Source of Food. , 0, , 1063-1085.		9
88	Quantifying the efficiency and biases of forest <scp><i>Saccharomyces</i></scp> sampling strategies. Yeast, 2019, 36, 657-668.	1.7	9
89	Dissecting the Biology of the Fungal Wheat Pathogen <i>Zymoseptoria tritici</i>: A Laboratory Workflow. Current Protocols in Microbiology, 2020, 59, e128.	6.5	9
90	Differential Regulation and Production of Secondary Metabolites among Isolates of the Fungal Wheat Pathogen Zymoseptoria tritici. Applied and Environmental Microbiology, 2022, 88, aem0229621.	3.1	9

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91	High levels of genetic and genotypic diversity in field populations of the barley pathogen Ramularia collo-cygni. European Journal of Plant Pathology, 2013, 136, 51-60.	1.7	8
92	Making Time: Conservation of Biological Clocks from Fungi to Animals. , 2017, , 515-534.		8
93	Fungi that Infect Humans. , 2017, , 811-843.		8
94	Sex and the Imperfect Fungi. , 0, , 193-214.		8
95	Ago1 Affects the Virulence of the Fungal Plant Pathogen Zymoseptoria tritici. Genes, 2021, 12, 1011.	2.4	8
96	Comparing Fungal Genomes: Insight into Functional and Evolutionary Processes. Methods in Molecular Biology, 2012, 835, 531-548.	0.9	7
97	Mating-type locus rearrangements and shifts in thallism states in Citrus-associated Phyllosticta species. Fungal Genetics and Biology, 2020, 144, 103444.	2.1	7
98	The Insect Pathogens. , 0, , 923-943.		7
99	What Defines the â€œKingdomâ€•Fungi?. , 2017, , 57-77.		6
100	The Mutualistic Interaction between Plants and Arbuscular Mycorrhizal Fungi. , 0, , 727-747.		6
101	Bacterial Endosymbionts: Master Modulators of Fungal Phenotypes. , 2017, , 981-1004.		6
102	Emerging Fungal Threats to Plants and Animals Challenge Agriculture and Ecosystem Resilience. , 0, , 787-809.		6
103	Fungal Biofilms: Inside Out. , 2017, , 873-886.		6
104	Skin Fungi from Colonization to Infection. , 0, , 855-871.		6
105	Toward an Investigation of Diversity and Cultivation of Rye (Secale cereale ssp. cereale L.) in Germany: Methodological Insights and First Results from Early Modern Plant Material. Agronomy, 2021, 11, 2451.	3.0	6
106	New species of <i>Colletotrichum</i> from wild Poaceae and Cyperaceae plants in Iran. Mycologia, 2022, 114, 89-113.	1.9	6
107	Plant pathogens provide clues to the potential origin of bat white-nose syndrome <i>Pseudogymnoascus destructans</i>. Virulence, 2022, 13, 1020-1031.	4.4	6
108	Hitchhiking Selection Is Driving Intron Gain in a Pathogenic Fungus. Molecular Biology and Evolution, 2014, 31, 1741-1749.	8.9	5

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109	Transposable Elements in Fungi: Coevolution With the Host Genome Shapes, Genome Architecture, Plasticity and Adaptation. , 2021, , 142-155.		5
110	Fungal Sex: The<i>Ascomycota</i>. , 0, , 115-145.		4
111	Nutrient Sensing at the Plasma Membrane of Fungal Cells. , 2017, , 417-439.		4
112	Nematode-Trapping Fungi. , 2017, , 963-974.		4
113	The insertion of a mitochondrial selfish element into the nuclear genome and its consequences. Ecology and Evolution, 2020, 10, 11117-11132.	1.9	4
114	Forest <i>Saccharomyces paradoxus</i> are robust to seasonal biotic and abiotic changes. Ecology and Evolution, 2021, 11, 6604-6619.	1.9	4
115	Unraveling coevolutionary dynamics using ecological genomics. Trends in Genetics, 2022, 38, 1003-1012.	6.7	4
116	Fungal Sex: The Mucoromycota. , 2017, , 177-191.		3
117	Sources of Fungal Genetic Variation and Associating It with Phenotypic Diversity. , 0, , 635-655.		3
118	RNA Interference in Fungi: Retention and Loss. , 0, , 657-671.		3
119	The Mycobiome: Impact on Health and Disease States. , 2017, , 845-854.		3
120	Fungal Enzymes and Yeasts for Conversion of Plant Biomass to Bioenergy and High-Value Products. , 2017, , 1027-1048.		3
121	Ecology of Fungal Plant Pathogens. , 0, , 387-397.		3
122	Infection experiments of Pyrenophora teres f. maculata on cultivated and wild barley indicate absence of host specificity. European Journal of Plant Pathology, 2022, 163, 749-759.	1.7	3
123	Genomic landscape of a relict fir-associated fungus reveals rapid convergent adaptation towards endophytism. ISME Journal, 2022, 16, 1294-1305.	9.8	3
124	Speciation Genomics of Fungal Plant Pathogens. Advances in Botanical Research, 2014, , 397-423.	1.1	2
125	Melanin, Radiation, and Energy Transduction in Fungi. , 0, , 509-514.		2
126	Host-Microsporidia Interactions in Caenorhabditis elegans, a Model Nematode Host. , 2017, , 975-980.		2

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127	Fungal Ligninolytic Enzymes and Their Applications. , 2017, , 1049-1061.		2
128	Target of Rapamycin (TOR) Regulates Growth in Response to Nutritional Signals. , 0, , 535-548.		2
129	2 Origin, Function, and Transmission of Accessory Chromosomes. , 2020, , 25-47.		2
130	The Geomycology of Elemental Cycling and Transformations in the Environment. , 2017, , 369-386.		1
131	Key Ecological Roles for Zoosporic True Fungi in Aquatic Habitats. , 2017, , 399-416.		1
132	Fungal Recognition and Host Defense Mechanisms. , 2017, , 887-902.		1
133	Lichenized Fungi and the Evolution of Symbiotic Organization. , 0, , 749-765.		1
134	Fungal Plant Pathogenesis Mediated by Effectors. , 0, , 767-785.		1
135	Fungal Cell Cycle: A Unicellular versus Multicellular Comparison. , 2017, , 549-570.		0
136	The Complexity of Fungal Vision. , 2017, , 441-461.		0
137	Thigmo Responses: The Fungal Sense of Touch. , 2017, , 487-507.		0
138	Amyloid Prions in Fungi. , 2017, , 673-685.		0
139	A Matter of Scale and Dimensions: Chromatin of Chromosome Landmarks in the Fungi. , 0, , 571-597.		0