Michael E Hood

List of Publications by Year
in descending order

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78 papers	3,466 citations	159585 30 h-index	161849 54 g-index
82 all docs	82 docs citations	82 times ranked	2675 citing authors

#	Article	IF	Citations
1	Speciation in fungi. Fungal Genetics and Biology, 2008, 45, 791-802.	2.1	281
2	PHYLOGENETIC EVIDENCE OF HOST-SPECIFIC CRYPTIC SPECIES IN THE ANTHER SMUT FUNGUS. Evolution; International Journal of Organic Evolution, 2007, 61, 15-26.	2.3	209
3	Having sex, yes, but with whom? Inferences from fungi on the evolution of anisogamy and mating types. Biological Reviews, 2011, 86, 421-442.	10.4	204
4	Mating System of the Anther Smut Fungus <i>Microbotryum violaceum</i> : Selfing under Heterothallism. Eukaryotic Cell, 2008, 7, 765-775.	3.4	129
5	The Ecology and Genetics of a Host Shift:Microbotryumas a Model System. American Naturalist, 2002, 160, S40-S53.	2.1	123
6	Cophylogeny of the anther smut fungi and their caryophyllaceous hosts: Prevalence of host shifts and importance of delimiting parasite species for inferring cospeciation. BMC Evolutionary Biology, 2008, 8, 100.	3.2	116
7	Evolutionary strata on young mating-type chromosomes despite the lack of sexual antagonism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7067-7072.	7.1	92
8	Intratetrad mating, heterozygosity, and the maintenance of deleterious alleles in Microbotryum violaceum (=Ustilago violacea). Heredity, 2000, 85, 231-241.	2.6	90
9	Multiple Infections by the Anther Smut Pathogen Are Frequent and Involve Related Strains. PLoS Pathogens, 2007, 3, e176.	4.7	86
10	Fungal Sex: The Basidiomycota. Microbiology Spectrum, 2017, 5, .	3.0	82
11	Multiple convergent supergene evolution events in mating-type chromosomes. Nature Communications, 2018, 9, 2000.	12.8	81
12	Maintenance of Fungal Pathogen Species That Are Specialized to Different Hosts: Allopatric Divergence and Introgression through Secondary Contact. Molecular Biology and Evolution, 2011, 28, 459-471.	8.9	79
13	Dimorphic Mating-Type Chromosomes in the Fungus <i>Microbotryum violaceum</i>. Genetics, 2002, 160, 457-461.	2.9	79
14	Chaos of Rearrangements in the Mating-Type Chromosomes of the Anther-Smut Fungus <i>Microbotryum lychnidis-dioicae</i>. Genetics, 2015, 200, 1275-1284.	2.9	78
15	Distribution of the antherâ€smut pathogen <i>Microbotryum</i> on species of the Caryophyllaceae. New Phytologist, 2010, 187, 217-229.	7.3	73
16	Glacial Refugia in Pathogens: European Genetic Structure of Anther Smut Pathogens on Silene latifolia and Silene dioica. PLoS Pathogens, 2010, 6, e1001229.	4.7	70
17	Ancient <i>Trans</i>-specific Polymorphism at Pheromone Receptor Genes in Basidiomycetes. Genetics, 2009, 181, 209-223.	2.9	68
18	Mating Within the Meiotic Tetrad and the Maintenance of Genomic Heterozygosity. Genetics, 2004, 166, 1751-1759.	2.9	67

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19	Repeat-Induced Point Mutation and the Population Structure of Transposable Elements in Microbotryum violaceum. Genetics, 2005, 170, 1081-1089.	2.9	66
20	EVOLUTION OF REPRODUCTIVE ISOLATION WITHIN A PARASITIC FUNGAL SPECIES COMPLEX. Evolution; International Journal of Organic Evolution, 2007, 61, 1781-1787.	2.3	66
21	Patterns of Repeat-Induced Point Mutation in Transposable Elements of Basidiomycete Fungi. Genome Biology and Evolution, 2012, 4, 240-247.	2.5	64
22	Shared Forces of Sex Chromosome Evolution in Haploid-Mating and Diploid-Mating OrganismsSequence data from this article have been deposited with the EMBL/GenBank Data Libraries under the accession nos. BZ81929 and BZ782612.. Genetics, 2004, 168, 141-146.	2.9	63
23	Sex and parasites: genomic and transcriptomic analysis of Microbotryum lychnidis-dioicae, the biotrophic and plant-castrating anther smut fungus. BMC Genomics, 2015, 16, 461.	2.8	58
24	Herbarium studies on the distribution of antherâ€smut fungus (<i>Microbotryum violaceum</i>) and <i>Silene</i> species (Caryophyllaceae) in the eastern United States. American Journal of Botany, 2003, 90, 1522-1531.	1.7	57
25	Extensive Divergence Between Mating-Type Chromosomes of the Anther-Smut Fungus. Genetics, 2013, 193, 309-315.	2.9	55
26	Repetitive DNA in the automictic fungus Microbotryum violaceum. Genetica, 2005, 124, 1-10.	1.1	54
27	COMPETITION, COOPERATION AMONG KIN, AND VIRULENCE IN MULTIPLE INFECTIONS. Evolution; International Journal of Organic Evolution, 2011, 65, 1357-1366.	2.3	54
28	Degeneration of the Nonrecombining Regions in the Mating-Type Chromosomes of the Anther-Smut Fungi. Molecular Biology and Evolution, 2015, 32, 928-943.	8.9	49
29	Recombination suppression and evolutionary strata around matingâ€type loci in fungi: documenting patterns and understanding evolutionary and mechanistic causes. New Phytologist, 2021, 229, 2470-2491.	7.3	46
30	Transmission and temporal dynamics of antherâ€smut disease (<i>Microbotryum</i>) on alpine carnation (<i>Dianthus pavonius</i>). Journal of Ecology, 2017, 105, 1413-1424.	4.0	45
31	Contrasted patterns in mating-type chromosomes in fungi: Hotspots versus coldspots of recombination. Fungal Biology Reviews, 2015, 29, 220-229.	4.7	40
32	Strong phylogeographic coâ€structure between the antherâ€smut fungus and its white campion host. New Phytologist, 2016, 212, 668-679.	7.3	36
33	History of the invasion of the anther smut pathogen on S ilene latifolia in N orth A merica. New Phytologist, 2013, 198, 946-956.	7.3	33
34	LINKAGE TO THE MATING-TYPE LOCUS ACROSS THE GENUS<i>MICROBOTRYUM</i>: INSIGHTS INTO NONRECOMBINING CHROMOSOMES. Evolution; International Journal of Organic Evolution, 2012, 66, 3519-3533.	2.3	32
35	Karyotypic similarity identifies multiple host-shifts of a pathogenic fungus in natural populations. Infection, Genetics and Evolution, 2003, 2, 167-172.	2.3	30
36	Expressed sequences tags of the anther smut fungus, Microbotryum violaceum, identify mating and pathogenicity genes. BMC Genomics, 2007, 8, 272.	2.8	30

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37	Using phylogenies of pheromone receptor genes in the<i>Microbotryum violaceum</i>species complex to investigate possible speciation by hybridization. Mycologia, 2010, 102, 689-696.	1.9	28
38	Coâ€occurrence and hybridization of antherâ€smut pathogens specialized on Dianthus hosts. Molecular Ecology, 2017, 26, 1877-1890.	3.9	28
39	Theoretical Population Genetics of Mating-Type Linked Haplo-Lethal Alleles. International Journal of Plant Sciences, 1998, 159, 192-198.	1.3	26
40	Within-host competitive exclusion among species of the anther smut pathogen. BMC Ecology, 2009, 9, 11.	3.0	26
41	Variation in resistance to multiple pathogen species: anther smuts of <i><scp>S</scp>ilene uniflora</i>. Ecology and Evolution, 2012, 2, 2304-2314.	1.9	26
42	Understanding Adaptation, Coevolution, Host Specialization, and Mating System in Castrating Anther-Smut Fungi by Combining Population and Comparative Genomics. Annual Review of Phytopathology, 2019, 57, 431-457.	7.8	23
43	Is there a diseaseâ€free halo at species range limits? The codistribution of antherâ€smut disease and its host species. Journal of Ecology, 2019, 107, 1-11.	4.0	21
44	Convergent recombination cessation between mating-type genes and centromeres in selfing anther-smut fungi. Genome Research, 2019, 29, 944-953.	5.5	21
45	Mating Within the Meiotic Tetrad and the Maintenance of Genomic Heterozygosity. Genetics, 2004, 166, 1751-1759.	2.9	21
46	THE EVOLUTION OF INTRATETRAD MATING RATES. Evolution; International Journal of Organic Evolution, 2005, 59, 2525-2532.	2.3	20
47	Fungal Sex: The Basidiomycota. , 0, , 147-175.		20
48	Loss of pathogens in threatened plant species. Oikos, 2010, 119, 1919-1928.	2.7	19
49	Higher Gene Flow in Sex-Related Chromosomes than in Autosomes during Fungal Divergence. Molecular Biology and Evolution, 2020, 37, 668-682.	8.9	19
50	Distribution and population structure of the anther smut <i><scp>M</scp>icrobotryum silenesâ€acaulis</i> parasitizing an arcticâ€"alpine plant. Molecular Ecology, 2016, 25, 811-824.	3.9	17
51	Massive Expansion of Gypsy-Like Retrotransposons in Microbotryum Fungi. Genome Biology and Evolution, 2017, 9, 363-371.	2.5	17
52	Coâ€occurrence among three divergent plantâ€castrating fungi in the same <i>Silene</i> host species. Molecular Ecology, 2018, 27, 3357-3370.	3.9	17
53	Tissue Culture and Quantification of Individualâ€Level Resistance toÂAntherâ€Smut Disease in Silene vulgaris. International Journal of Plant Sciences, 2007, 168, 415-419.	1.3	15
54	Experimental hybridization and backcrossing reveal forces of reproductive isolation in Microbotryum. BMC Evolutionary Biology, 2013, 13, 224.	3.2	14

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55	Rate of resistance evolution and polymorphism in long- and short-lived hosts. Evolution; International Journal of Organic Evolution, 2015, 69, 551-560.	2.3	14
56	Plant species descriptions show signs of disease. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, S156-8.	2.6	13
57	Performance of a Hybrid Fungal Pathogen on Pure-Species and Hybrid Host Plants. International Journal of Plant Sciences, 2014, 175, 724-730.	1.3	13
58	Breaking linkage between mating compatibility factors: Tetrapolarity in<i>Microbotryum</i>. Evolution; International Journal of Organic Evolution, 2015, 69, 2561-2572.	2.3	13
59	The evolution of intratetrad mating rates. Evolution; International Journal of Organic Evolution, 2005, 59, 2525-32.	2.3	13
60	Lifeâ€history strategy defends against disease and may select against physiological resistance. Ecology and Evolution, 2013, 3, 1741-1750.	1.9	11
61	Differential Gene Expression between Fungal Mating Types Is Associated with Sequence Degeneration. Genome Biology and Evolution, 2020, 12, 243-258.	2.5	11
62	Mining new sources of natural history observations for disease interactions. American Journal of Botany, 2020, 107, 3-11.	1.7	11
63	Onset and stepwise extensions of recombination suppression are common in matingâ€type chromosomes of <i>Microbotryum</i> antherâ€smut fungi. Journal of Evolutionary Biology, 2022, 35, 1619-1634.	1.7	11
64	Effect of the antherâ€smut fungus <i>Microbotryum</i> on the juvenile growth of its host <i>Silene latifolia</i>. American Journal of Botany, 2018, 105, 1088-1095.	1.7	10
65	Differences in teliospore germination patterns of Microbotryum violaceum from European and North American Silene species. Mycological Research, 2001, 105, 532-536.	2.5	9
66	Lower prevalence but similar fitness in a parasitic fungus at higher radiation levels near Chernobyl. Molecular Ecology, 2016, 25, 3370-3383.	3.9	9
67	Sympatry and interference of divergent Microbotryum pathogen species. Ecology and Evolution, 2019, 9, 5457-5467.	1.9	9
68	Tempo of Degeneration Across Independently Evolved Nonrecombining Regions. Molecular Biology and Evolution, 2022, 39, .	8.9	9
69	The role of infectious disease in the evolution of females: Evidence from antherâ€smut disease on a gynodioecious alpine carnation*. Evolution; International Journal of Organic Evolution, 2019, 73, 497-510.	2.3	6
70	From generalist to specialists: Variation in the host range and performance of antherâ€smut pathogens on <i>Dianthus</i> [*]. Evolution; International Journal of Organic Evolution, 2021, 75, 2494-2508.	2.3	6
71	Multiple infections, relatedness and virulence in the antherâ€smut fungus castrating <i>Saponaria</i> plants. Molecular Ecology, 2018, 27, 4947-4959.	3.9	5
72	Specificity and seasonal prevalence of anther smut disease <i>Microbotryum</i> on sympatric Himalayan <i>Silene</i> species. Journal of Evolutionary Biology, 2019, 32, 451-462.	1.7	5

#	Article	IF	Citations
73	Vector preference and heterogeneity in host sex ratio can affect pathogen spread in natural plant populations. Ecology, 2021, 102, e03246.	3.2	4
74	Resistance Correlations Influence Infection by Foreign Pathogens. American Naturalist, 2021, 198, 206-218.	2.1	4
75	Linnaeus, smut disease and living contagion. Archives of Natural History, 2018, 45, 213-232.	0.3	4
76	Meiotic recombination in the offspring of Microbotryum hybrids and its impact on pathogenicity. BMC Evolutionary Biology, 2020, 20, 123.	3.2	2
77	Exploring densityâ€•and frequencyâ€dependent interactions experimentally: An r program for generating hexagonal fan designs. Methods in Ecology and Evolution, 2020, 11, 678-683.	5.2	2
78	John Leigh, Lydia Becker and their shared botanical interests. Archives of Natural History, 2021, 48, 62-76.	0.3	1