

Luke G Barrett

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,847
citations

186265

28
h-index

189892

50
g-index

55
all docs

55
docs citations

55
times ranked

3370
citing authors

#	ARTICLE	IF	CITATIONS
1	Life history determines genetic structure and evolutionary potential of host–parasite interactions. <i>Trends in Ecology and Evolution</i> , 2008, 23, 678-685.	8.7	302
2	Rapid genetic change underpins antagonistic coevolution in a natural host–pathogen metapopulation. <i>Ecology Letters</i> , 2012, 15, 425-435.	6.4	189
3	The long-term maintenance of a resistance polymorphism through diffuse interactions. <i>Nature</i> , 2014, 512, 436-440.	27.8	182
4	Continua of specificity and virulence in plant host–pathogen interactions: causes and consequences. <i>New Phytologist</i> , 2009, 183, 513-529.	7.3	176
5	Guiding deployment of resistance in cereals using evolutionary principles. <i>Evolutionary Applications</i> , 2014, 7, 609-624.	3.1	171
6	Unifying concepts and mechanisms in the specificity of plant–enemy interactions. <i>Trends in Plant Science</i> , 2012, 17, 282-292.	8.8	155
7	Diversity and Evolution of Effector Loci in Natural Populations of the Plant Pathogen <i>Melampsora lini</i> . <i>Molecular Biology and Evolution</i> , 2009, 26, 2499-2513.	8.9	130
8	Variation in infectivity and aggressiveness in space and time in wild host–pathogen systems: causes and consequences. <i>Journal of Evolutionary Biology</i> , 2012, 25, 1918-1936.	1.7	129
9	Assessing the durability and efficiency of landscape-based strategies to deploy plant resistance to pathogens. <i>PLoS Computational Biology</i> , 2018, 14, e1006067.	3.2	72
10	Symbiosis limits establishment of legumes outside their native range at a global scale. <i>Nature Communications</i> , 2017, 8, 14790.	12.8	71
11	MALADAPTATION IN WILD POPULATIONS OF THE GENERALIST PLANT PATHOGEN <i>PSEUDOMONAS SYRINGAE</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 818-830.	2.3	70
12	Contrasting impacts of pollen and seed dispersal on spatial genetic structure in the bird-pollinated <i>Banksia hookeriana</i> . <i>Heredity</i> , 2009, 102, 274-285.	2.6	65
13	Epidemiological and Evolutionary Outcomes in Gene-for-Gene and Matching Allele Models. <i>Frontiers in Plant Science</i> , 2015, 6, 1084.	3.6	62
14	Cheating, trade-offs and the evolution of aggressiveness in a natural pathogen population. <i>Ecology Letters</i> , 2011, 14, 1149-1157.	6.4	58
15	Addressing the Challenges of Pathogen Evolution on the World’s Arable Crops. <i>Phytopathology</i> , 2016, 106, 1117-1127.	2.2	55
16	Host promiscuity in symbiont associations can influence exotic legume establishment and colonization of novel ranges. <i>Diversity and Distributions</i> , 2015, 21, 1193-1203.	4.1	52
17	Mosaics, mixtures, rotations or pyramiding: What is the optimal strategy to deploy major gene resistance?. <i>Evolutionary Applications</i> , 2018, 11, 1791-1810.	3.1	52
18	Partner diversity and identity impacts on plant productivity in <i>Acacia</i> –rhizobial interactions. <i>Journal of Ecology</i> , 2015, 103, 130-142.	4.0	49

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19	Temporal patterns of genetic variation across a 9-year-old aerial seed bank of the shrub <i>Banksia hookeriana</i> (Proteaceae). <i>Molecular Ecology</i> , 2005, 14, 4169-4179.	3.9	48
20	Models of Plant Resistance Deployment. <i>Annual Review of Phytopathology</i> , 2021, 59, 125-152.	7.8	47
21	EVOLUTIONARY DIVERSIFICATION THROUGH HYBRIDIZATION IN A WILD HOST-PATHOGEN INTERACTION. <i>Evolution; International Journal of Organic Evolution</i> , 2007, 61, 1613-1621.	2.3	46
22	Geographic adaptation in plant-soil mutualisms: tests using <i>Acacia</i> spp. and rhizobial bacteria. <i>Functional Ecology</i> , 2012, 26, 457-468.	3.6	45
23	Resistance to natural and synthetic gene drive systems. <i>Journal of Evolutionary Biology</i> , 2020, 33, 1345-1360.	1.7	43
24	Mutualisms are not constraining cross-continental invasion success of <i>Acacia</i> species within Australia. <i>Diversity and Distributions</i> , 2012, 18, 962-976.	4.1	42
25	Host species and environmental variation can influence rhizobial community composition. <i>Journal of Ecology</i> , 2017, 105, 540-548.	4.0	38
26	Larger plants promote a greater diversity of symbiotic nitrogen-fixing soil bacteria associated with an Australian endemic legume. <i>Journal of Ecology</i> , 2019, 107, 977-991.	4.0	38
27	Variation in pathogen aggressiveness within a metapopulation of the <i>Cakile maritima</i> - <i>Alternaria brassicicola</i> host-pathogen association. <i>Plant Pathology</i> , 2005, 54, 265-274.	2.4	37
28	Population structure and diversity in sexual and asexual populations of the pathogenic fungus <i>Melampsora lini</i> . <i>Molecular Ecology</i> , 2008, 17, 3401-3415.	3.9	36
29	Gene drives in plants: opportunities and challenges for weed control and engineered resilience. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191515.	2.6	36
30	Positive selection in AvrP4 avirulence gene homologues across the genus <i>Melampsora</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 2913-2922.	2.6	33
31	Spatio-temporal connectivity and host resistance influence evolutionary and epidemiological dynamics of the canola pathogen <i>Leptosphaeria maculans</i> . <i>Evolutionary Applications</i> , 2018, 11, 1354-1370.	3.1	31
32	Isolation and characterization of microsatellite loci from the rust pathogen, <i>Melampsora lini</i> . <i>Molecular Ecology Notes</i> , 2006, 6, 930-932.	1.7	27
33	Can natural gene drives be part of future fungal pathogen control strategies in plants?. <i>New Phytologist</i> , 2020, 228, 1431-1439.	7.3	26
34	Local demographic and epidemiological patterns in the <i>Leptosphaeria marginalis</i> - <i>Melampsora lini</i> association: a multi-year study. <i>Journal of Ecology</i> , 2017, 105, 1399-1412.	4.0	25
35	Mixed infections alter transmission potential in a fungal plant pathogen. <i>Environmental Microbiology</i> , 2021, 23, 2315-2330.	3.8	25
36	Phylogenetic signals and predictability in plant-soil feedbacks. <i>New Phytologist</i> , 2020, 228, 1440-1449.	7.3	19

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37	Evolutionary history shapes patterns of mutualistic benefit in Acacia-rhizobial interactions. <i>Evolution; International Journal of Organic Evolution</i> , 2016, 70, 1473-1485.	2.3	18
38	Maintenance of variation in virulence and reproduction in populations of an agricultural plant pathogen. <i>Evolutionary Applications</i> , 2021, 14, 335-347.	3.1	18
39	Gene drive strategies of pest control in agricultural systems: Challenges and opportunities. <i>Evolutionary Applications</i> , 2021, 14, 2162-2178.	3.1	17
40	Differential plant invasiveness is not always driven by host promiscuity with bacterial symbionts. <i>AoB PLANTS</i> , 2016, 8, plw060.	2.3	15
41	Availability of soil mutualists may not limit non-native <i>Acacia</i> invasion but could increase their impact on native soil communities. <i>Journal of Applied Ecology</i> , 2020, 57, 786-793.	4.0	14
42	Population Processes at Multiple Spatial Scales Maintain Diversity and Adaptation in the <i>Linum marginale</i> - <i>Melampsora lini</i> Association. <i>PLoS ONE</i> , 2012, 7, e41366.	2.5	14
43	Maximizing World Food Production through Disease Control. <i>BioScience</i> , 2020, 70, 126-128.	4.9	13
44	Specialization for resistance in wild host-pathogen interaction networks. <i>Frontiers in Plant Science</i> , 2015, 6, 761.	3.6	11
45	Gene technologies in weed management: a technical feasibility analysis. <i>Current Opinion in Insect Science</i> , 2020, 38, 6-14.	4.4	9
46	Similar levels of gene content variation observed for <i>Pseudomonas syringae</i> populations extracted from single and multiple host species. <i>PLoS ONE</i> , 2017, 12, e0184195.	2.5	8
47	Genetic analysis reveals long-standing population differentiation and high diversity in the rust pathogen <i>Melampsora lini</i> . <i>PLoS Pathogens</i> , 2020, 16, e1008731.	4.7	8
48	Novel model-based clustering reveals ecologically differentiated bacterial genomes across a large climate gradient. <i>Ecology Letters</i> , 2019, 22, 2077-2086.	6.4	3
49	Soil biotic effects and competition; What are the mechanisms behind being a successful invader?. <i>Pedobiologia</i> , 2021, 87-88, 150749.	1.2	3
50	Metapopulation Structure Predicts Population Dynamics in the <i>Cakile maritima</i> - <i>Alternaria brassicicola</i> Host-Pathogen Interaction. <i>American Naturalist</i> , 2021, 197, E55-E71.	2.1	2