

# Matthew R Walsh

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5992631/publications.pdf>

Version: 2024-02-01

38  
papers

1,182  
citations

430874

18  
h-index

395702

33  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1360  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions between the direct and indirect effects of predators determine life history evolution in a killifish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 594-599.	7.1	138
2	PHENOTYPIC DIVERSIFICATION ACROSS AN ENVIRONMENTAL GRADIENT: A ROLE FOR PREDATORS AND RESOURCE AVAILABILITY ON THE EVOLUTION OF LIFE HISTORIES. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 3201-3213.	2.3	77
3	A cascade of evolutionary change alters consumer-resource dynamics and ecosystem function. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 3184-3192.	2.6	75
4	Predator-induced phenotypic plasticity within- and across-generations: a challenge for theory?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142205.	2.6	75
5	EpiRADseq: scalable analysis of genomewide patterns of methylation using next-generation sequencing. <i>Methods in Ecology and Evolution</i> , 2016, 7, 60-69.	5.2	74
6	The evolutionary consequences of indirect effects. <i>Trends in Ecology and Evolution</i> , 2013, 28, 23-29.	8.7	69
7	Local adaptation in transgenerational responses to predators. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152271.	2.6	65
8	INFLUENCE OF THE INDIRECT EFFECTS OF GUPPIES ON LIFE-HISTORY EVOLUTION IN RIVULUS HARTII. <i>Evolution; International Journal of Organic Evolution</i> , 2010, 64, 1583-1593.	2.3	62
9	Interpopulation variation in a fish predator drives evolutionary divergence in prey in lakes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2628-2637.	2.6	60
10	EXPERIMENTALLY INDUCED LIFE-HISTORY EVOLUTION IN A KILLIFISH IN RESPONSE TO THE INTRODUCTION OF GUPPIES. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 1021-1036.	2.3	47
11	The direct and indirect effects of guppies: implications for life history evolution in <i>Rivulus hartii</i> . <i>Functional Ecology</i> , 2011, 25, 227-237.	3.6	42
12	Contrasting gene expression programs correspond with predator-induced phenotypic plasticity within and across generations in <i>Daphnia</i> . <i>Molecular Ecology</i> , 2017, 26, 5003-5015.	3.9	39
13	Thermal Transgenerational Plasticity in Natural Populations of <i>Daphnia</i> . <i>Integrative and Comparative Biology</i> , 2014, 54, 822-829.	2.0	34
14	Predator-driven brain size evolution in natural populations of Trinidadian killifish ( <i>Rivulus marmoratus</i> ). <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 222-231.	2.6	31
15	Novel ecological and climatic conditions drive rapid adaptation in invasive Florida Burmese pythons. <i>Molecular Ecology</i> , 2018, 27, 4744-4757.	3.9	30
16	The impact of intraspecific variation in a fish predator on the evolution of phenotypic plasticity and investment in sex in <i>Daphnia ambigua</i> . <i>Journal of Evolutionary Biology</i> , 2012, 25, 80-89.	1.7	29
17	The Link Between Environmental Variation and Evolutionary Shifts in Dormancy in Zooplankton. <i>Integrative and Comparative Biology</i> , 2013, 53, 713-722.	2.0	26
18	Rapid evolution mitigates the ecological consequences of an invasive species ( <i>Bythotrephes cederstroemi</i> ). <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 284, 20170814.	2.6	26

#	ARTICLE	IF	CITATIONS
19	Phytoplankton composition modifies predator-driven life history evolution in <i>Daphnia</i> . <i>Evolutionary Ecology</i> , 2014, 28, 397-411.	1.2	17
20	Ancestral genetic variation in phenotypic plasticity underlies rapid evolutionary changes in resurrected populations of waterfleas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32535-32544.	7.1	17
21	The evolution of eye size in response to increased fish predation in <i>Daphnia</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2019, 73, 792-802.	2.3	16
22	Does variation in the intensity and duration of predation drive evolutionary changes in senescence?. <i>Journal of Animal Ecology</i> , 2014, 83, 1279-1288.	2.8	15
23	Divergent phenotypic responses to predators and cyanobacteria in <i>Daphnia lumholtzi</i> . <i>Freshwater Biology</i> , 2015, 60, 1880-1889.	2.4	15
24	The evolution of vertebrate eye size across an environmental gradient: phenotype does not predict genotype in a Trinidadian killifish. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 2037-2049.	2.3	15
25	Predation drives the evolution of brain cell proliferation and brain allometry in male Trinidadian killifish, <i>Rivulus hartii</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191485.	2.6	13
26	CONVERGENCE OF LIFE-HISTORY PHENOTYPES IN A TRINIDADIAN KILLIFISH ( <i>RIVULUS HARTII</i> ). <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 1240-1254.	2.3	12
27	Coordinated evolution of brain size, structure, and eye size in Trinidadian killifish. <i>Ecology and Evolution</i> , 2021, 11, 365-375.	1.9	12
28	Natural selection favours a larger eye in response to increased competition in natural populations of a vertebrate. <i>Functional Ecology</i> , 2019, 33, 1321-1331.	3.6	10
29	Increased juvenile predation is not associated with evolved differences in adult brain size in Trinidadian killifish ( <i>Rivulus hartii</i> ). <i>Ecology and Evolution</i> , 2017, 7, 884-894.	1.9	9
30	Maternal diet and age alter direct and indirect relationships between life-history traits across multiple generations. <i>Functional Ecology</i> , 2019, 33, 491-502.	3.6	7
31	A latitudinal gradient in thermal transgenerational plasticity and a test of theory. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210797.	2.6	6
32	The interplay between resource supply and demand determines the influence of predation on prey body size. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2016, 73, 709-715.	1.4	5
33	Individual variation in plasticity dulls transgenerational responses to stress. <i>Functional Ecology</i> , 2019, 33, 1993-2002.	3.6	5
34	Transgenerational plasticity in the eye size of <i>Daphnia</i> . <i>Biology Letters</i> , 2021, 17, 20210143.	2.3	3
35	Evolutionary change in metabolic rate of <i>Daphnia pulicaria</i> following invasion by the predator <i>Bythotrephes longimanus</i> . <i>Ecology and Evolution</i> , 2022, 12, .	1.9	3
36	Impacts of anthropogenic pressures on the contemporary biogeography of threatened crocodylians in Indonesia. <i>Oryx</i> , 2019, 53, 570-581.	1.0	2

#	ARTICLE	IF	CITATIONS
37	Sex-specific evolution of brain size and structure and covariation with eye size in Trinidadian killifish. <i>Biological Journal of the Linnean Society</i> , 2022, 136, 226-239.	1.6	1
38	Predator-induced plasticity does not alter the pathway from evolution to ecology among locally adapted populations of <i>Daphnia</i> . <i>Evolutionary Ecology</i> , 2017, 31, 477-487.	1.2	0