

# Andrea L Graham

## List of Publications by Year in descending order

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Version: 2024-02-01

102  
papers

6,601  
citations

87723

38  
h-index

74018

75  
g-index

112  
all docs

112  
docs citations

112  
times ranked

8365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pathways to zoonotic spillover. <i>Nature Reviews Microbiology</i> , 2017, 15, 502-510.	13.6	702
2	Decomposing health: tolerance and resistance to parasites in animals. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 37-49.	1.8	667
3	Evolutionary Causes and Consequences of Immunopathology. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2005, 36, 373-397.	3.8	338
4	Ecological rules governing helminth-microparasite coinfection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 566-570.	3.3	324
5	Use of serological surveys to generate key insights into the changing global landscape of infectious disease. <i>Lancet, The</i> , 2016, 388, 728-730.	6.3	213
6	Immune life history, vaccination, and the dynamics of SARS-CoV-2 over the next 5 years. <i>Science</i> , 2020, 370, 811-818.	6.0	210
7	Fitness consequences of immune responses: strengthening the empirical framework for ecoimmunology. <i>Functional Ecology</i> , 2011, 25, 5-17.	1.7	202
8	Animal Defenses against Infectious Agents: Is Damage Control More Important Than Pathogen Control. <i>PLoS Biology</i> , 2008, 6, e1000004.	2.6	187
9	Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes. <i>Science</i> , 2021, 372, 363-370.	6.0	185
10	Fitness Correlates of Heritable Variation in Antibody Responsiveness in a Wild Mammal. <i>Science</i> , 2010, 330, 662-665.	6.0	182
11	The Coevolution of Virulence: Tolerance in Perspective. <i>PLoS Pathogens</i> , 2010, 6, e1001006.	2.1	149
12	Parasite-Microbiota Interactions With the Vertebrate Gut: Synthesis Through an Ecological Lens. <i>Frontiers in Microbiology</i> , 2018, 9, 843.	1.5	146
13	Malaria-Filaria Coinfection in Mice Makes Malarial Disease More Severe unless Filarial Infection Achieves Patency. <i>Journal of Infectious Diseases</i> , 2005, 191, 410-421.	1.9	137
14	Altered Immunity of Laboratory Mice in the Natural Environment Is Associated with Fungal Colonization. <i>Cell Host and Microbe</i> , 2020, 27, 809-822.e6.	5.1	119
15	Early recruitment of natural CD4 <sup>+</sup> Foxp3 <sup>+</sup> Treg cells by infective larvae determines the outcome of filarial infection. <i>European Journal of Immunology</i> , 2009, 39, 192-206.	1.6	114
16	Transmission consequences of coinfection: cytokines writ large?. <i>Trends in Parasitology</i> , 2007, 23, 284-291.	1.5	113
17	Natural Selection on Individual Variation in Tolerance of Gastrointestinal Nematode Infection. <i>PLoS Biology</i> , 2014, 12, e1001917.	2.6	104
18	Understanding Herd Immunity. <i>Trends in Immunology</i> , 2015, 36, 753-755.	2.9	102

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19	Rapid environmental effects on gut nematode susceptibility in rewilded mice. <i>PLoS Biology</i> , 2018, 16, e2004108.	2.6	97
20	Accelerated viral dynamics in bat cell lines, with implications for zoonotic emergence. <i>ELife</i> , 2020, 9, .	2.8	91
21	Dynamics of a Cytokine Storm. <i>PLoS ONE</i> , 2012, 7, e45027.	1.1	87
22	Partitioning Regulatory Mechanisms of Within-Host Malaria Dynamics Using the Effective Propagation Number. <i>Science</i> , 2011, 333, 984-988.	6.0	86
23	Evolution of parasite virulence when host responses cause disease. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2685-2692.	1.2	84
24	Vaccine nationalism and the dynamics and control of SARS-CoV-2. <i>Science</i> , 2021, 373, eabj7364.	6.0	80
25	Interesting Open Questions in Disease Ecology and Evolution. <i>American Naturalist</i> , 2014, 184, S1-S8.	1.0	74
26	The within-host dynamics of infection in transgenerationally primed flour beetles. <i>Molecular Ecology</i> , 2017, 26, 3794-3807.	2.0	70
27	IL-4 is required to prevent filarial nematode development in resistant but not susceptible strains of mice. <i>International Journal for Parasitology</i> , 2002, 32, 1277-1284.	1.3	68
28	When T <sub>H</sub> Helper Cells Don't Help: Immunopathology During Concomitant Infection. <i>Quarterly Review of Biology</i> , 2002, 77, 409-434.	0.0	64
29	Rewilding Nod2 and Atg16l1 Mutant Mice Uncovers Genetic and Environmental Contributions to Microbial Responses and Immune Cell Composition. <i>Cell Host and Microbe</i> , 2020, 27, 830-840.e4.	5.1	62
30	Heritable, Heterogeneous, and Costly Resistance of Sheep against Nematodes and Potential Feedbacks to Epidemiological Dynamics. <i>American Naturalist</i> , 2014, 184, S58-S76.	1.0	60
31	Patterns and Processes in Parasite Co-Infection. <i>Advances in Parasitology</i> , 2013, 82, 321-369.	1.4	59
32	Naturalizing mouse models for immunology. <i>Nature Immunology</i> , 2021, 22, 111-117.	7.0	58
33	Multivariate immune defences and fitness in the wild: complex but ecologically important associations among plasma antibodies, health and survival. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20132931.	1.2	57
34	Transgenerational priming of resistance in wild flour beetles reflects the primed phenotypes of laboratory populations and is inhibited by coinfection with a common parasite. <i>Functional Ecology</i> , 2015, 29, 1059-1069.	1.7	50
35	Inferring infection hazard in wildlife populations by linking data across individual and population scales. <i>Ecology Letters</i> , 2017, 20, 275-292.	3.0	50
36	Explaining rapid reinfections in multiple-wave influenza outbreaks: Tristan da Cunha 1971 epidemic as a case study. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3635-3643.	1.2	43

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37	EFFECTS OF SNAIL SIZE AND AGE ON THE PREVALENCE AND INTENSITY OF AVIAN SCHISTOSOME INFECTION: RELATING LABORATORY TO FIELD STUDIES. <i>Journal of Parasitology</i> , 2003, 89, 458-463.	0.3	41
38	Experimental manipulation of immune-mediated disease and its fitness costs for rodent malaria parasites. <i>BMC Evolutionary Biology</i> , 2008, 8, 128.	3.2	41
39	Evolution of hosts paying manifold costs of defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150065.	1.2	41
40	Optimality analysis of Th1/Th2 immune responses during microparasite-macroparasite co-infection, with epidemiological feedbacks. <i>Parasitology</i> , 2008, 135, 841-853.	0.7	39
41	Detecting genes for variation in parasite burden and immunological traits in a wild population: testing the candidate gene approach. <i>Molecular Ecology</i> , 2013, 22, 757-773.	2.0	39
42	Do parasite infections interfere with immunisation? A review and meta-analysis. <i>Vaccine</i> , 2020, 38, 5582-5590.	1.7	36
43	Blockade of TNF receptor 1 reduces disease severity but increases parasite transmission during <i>Plasmodium chabaudi chabaudi</i> infection. <i>International Journal for Parasitology</i> , 2008, 38, 1073-1081.	1.3	31
44	Consequences of immunopathology for pathogen virulence evolution and public health: malaria as a case study. <i>Evolutionary Applications</i> , 2011, 4, 278-291.	1.5	31
45	Competing for blood: the ecology of parasite resource competition in human malaria—helminth co-infections. <i>Ecology Letters</i> , 2018, 21, 536-545.	3.0	31
46	Why leveraging sex differences in immune trade-offs may illuminate the evolution of senescence. <i>Functional Ecology</i> , 2020, 34, 129-140.	1.7	31
47	Quantitative appraisal of murine filariasis confirms host strain differences but reveals that BALB/c females are more susceptible than males to <i>Litomosoides sigmodontis</i> . <i>Microbes and Infection</i> , 2005, 7, 612-618.	1.0	29
48	Co-infected C57BL/6 mice mount appropriately polarized and compartmentalized cytokine responses to <i>Litomosoides sigmodontis</i> and <i>Leishmania major</i> but disease progression is altered. <i>Parasite Immunology</i> , 2005, 27, 317-324.	0.7	29
49	Schedule and magnitude of reproductive investment under immune trade-offs explains sex differences in immunity. <i>Nature Communications</i> , 2018, 9, 4391.	5.8	29
50	Feeding Immunity: Physiological and Behavioral Responses to Infection and Resource Limitation. <i>Frontiers in Immunology</i> , 2017, 8, 1914.	2.2	29
51	<i>Rhodnius prolixus</i> Life History Outcomes Differ when Infected with Different <i>Trypanosoma cruzi</i> I Strains. <i>American Journal of Tropical Medicine and Hygiene</i> , 2015, 93, 564-572.	0.6	28
52	Universal or Specific? A Modeling-Based Comparison of Broad-Spectrum Influenza Vaccines against Conventional, Strain-Matched Vaccines. <i>PLoS Computational Biology</i> , 2016, 12, e1005204.	1.5	27
53	Opportunities and challenges of integral Projection Models for modelling host-parasite dynamics. <i>Journal of Animal Ecology</i> , 2016, 85, 343-355.	1.3	26
54	<i>Plasmodium chabaudi</i> limits early <i>Nippostrongylus brasiliensis</i> -induced pulmonary immune activation and Th2 polarization in co-infected mice. <i>BMC Immunology</i> , 2009, 10, 60.	0.9	25

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55	Dynamic Patterns of Parasitism and Immunity across Host Development Influence Optimal Strategies of Resource Allocation. <i>American Naturalist</i> , 2015, 186, 495-512.	1.0	25
56	Antibody isotype analysis of malaria-nematode co-infection: problems and solutions associated with cross-reactivity. <i>BMC Immunology</i> , 2010, 11, 6.	0.9	24
57	Bottom-up regulation of malaria population dynamics in mice co-infected with lung migratory nematodes. <i>Ecology Letters</i> , 2015, 18, 1387-1396.	3.0	24
58	Demographically framing trade-offs between sensitivity and specificity illuminates selection on immunity. <i>Nature Ecology and Evolution</i> , 2017, 1, 1766-1772.	3.4	24
59	Dissecting the contributions of time and microbe density to variation in immune gene expression. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170727.	1.2	24
60	Revealing mechanisms underlying variation in malaria virulence: effective propagation and host control of uninfected red blood cell supply. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2804-2813.	1.5	22
61	PERSPECTIVE ARTICLE: Why do adaptive immune responses cross-react?. <i>Evolutionary Applications</i> , 2009, 2, 122-131.	1.5	21
62	Insights from Parasite-Specific Serological Tools in Eco-Immunology. <i>Integrative and Comparative Biology</i> , 2014, 54, 363-376.	0.9	21
63	<i>Trypanosoma cruzi</i> – <i>Trypanosoma rangeli</i> co-infection ameliorates negative effects of single trypanosome infections in experimentally infected <i>Rhodnius prolixus</i> . <i>Parasitology</i> , 2016, 143, 1157-1167.	0.7	21
64	Parasite genetic diversity does not influence TNF-mediated effects on the virulence of primary rodent malaria infections. <i>Parasitology</i> , 2006, 133, 673.	0.7	20
65	Parasite resource manipulation drives bimodal variation in infection duration. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190456.	1.2	19
66	The effects of living in an outdoor enclosure on hippocampal plasticity and anxiety-like behavior in response to nematode infection. <i>Hippocampus</i> , 2019, 29, 366-377.	0.9	18
67	Elevated haemocyte number is associated with infection and low fitness potential in wild <i>Daphnia magna</i> . <i>Functional Ecology</i> , 2012, 26, 434-440.	1.7	17
68	Cross-Reactive Immune Responses as Primary Drivers of Malaria Chronicity. <i>Infection and Immunity</i> , 2014, 82, 140-151.	1.0	17
69	Strong effects of lab-to-field environmental transitions on the bacterial intestinal microbiota of <i>Mus musculus</i> are modulated by <i>Trichuris muris</i> infection. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	1.3	17
70	Quantifying variation in the potential for antibody-mediated apparent competition among nine genotypes of the rodent malaria parasite <i>Plasmodium chabaudi</i> . <i>Infection, Genetics and Evolution</i> , 2013, 20, 270-275.	1.0	16
71	Joint associations of blood plasma proteins with overwinter survival of a large mammal. <i>Ecology Letters</i> , 2017, 20, 175-183.	3.0	16
72	Editorial Optimal immunity meets natural variation: the evolutionary biology of host defence. <i>Parasite Immunology</i> , 2013, 35, n/a-n/a.	0.7	15

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73	Experimental parasite community perturbation reveals associations between Sin Nombre virus and gastrointestinal nematodes in a rodent reservoir host. <i>Biology Letters</i> , 2020, 16, 20200604.	1.0	14
74	Disentangling the dynamical underpinnings of differences in SARS-CoV-2 pathology using within-host ecological models. <i>PLoS Pathogens</i> , 2020, 16, e1009105.	2.1	14
75	Immune Signaling Networks: Sources of Robustness and Constrained Evolvability during Coevolution. <i>Molecular Biology and Evolution</i> , 2018, 35, 676-687.	3.5	12
76	Within-host dynamics of infection: from ecological insights to evolutionary predictions. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20140304.	1.8	11
77	Quorum sensing via dynamic cytokine signaling comprehensively explains divergent patterns of effector choice among helper T cells. <i>PLoS Computational Biology</i> , 2020, 16, e1008051.	1.5	11
78	The evolution of powerful yet perilous immune systems. <i>Trends in Immunology</i> , 2022, 43, 117-131.	2.9	11
79	What is the “true” effect of <i>Trypanosoma rangeli</i> on its triatomine bug vector?. <i>Journal of Vector Ecology</i> , 2016, 41, 27-33.	0.5	10
80	Use of an optimality model to solve the immunological puzzle of concomitant infection. <i>Parasitology</i> , 2001, 122, S61-S64.	0.7	9
81	t Testing the Immune System. <i>Immunity</i> , 2008, 28, 288-292.	6.6	9
82	Parasitic co-infections: challenges and solutions. <i>Parasitology</i> , 2008, 135, 749-749.	0.7	8
83	Exposure to viral and bacterial pathogens among Soay sheep ( <i>Ovis aries</i> ) of the St Kilda archipelago. <i>Epidemiology and Infection</i> , 2016, 144, 1879-1888.	1.0	7
84	Instructed subsets or agile swarms: how T-helper cells may adaptively counter uncertainty with variability and plasticity. <i>Current Opinion in Genetics and Development</i> , 2017, 47, 75-82.	1.5	7
85	Are we immune by chance?. <i>ELife</i> , 2017, 6, .	2.8	7
86	Noninvasive measurement of mucosal immunity in a free-ranging baboon population. <i>American Journal of Primatology</i> , 2020, 82, e23093.	0.8	7
87	Integrating immune mechanisms to model nematode worm burden: an example in sheep. <i>Parasitology</i> , 2016, 143, 894-904.	0.7	5
88	Relative contributions of environmental and maternal factors to transgenerational immune priming in <i>T. castaneum</i> . <i>Ecological Entomology</i> , 2017, 42, 100-104.	1.1	4
89	Using process algebra to develop predator-prey models of within-host parasite dynamics. <i>Journal of Theoretical Biology</i> , 2013, 329, 74-81.	0.8	3
90	Increased exposure to <i>Plasmodium chabaudi</i> antigens sustains cross-reactivity and avidity of antibodies binding <i>Nippostrongylus brasiliensis</i> : dissecting cross-phylum cross-reactivity in a rodent model. <i>Parasitology</i> , 2015, 142, 1703-1714.	0.7	3

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91	The impact of albendazole treatment on the incidence of viral- and bacterial-induced diarrhea in school children in southern Vietnam: study protocol for a randomized controlled trial. <i>Trials</i> , 2016, 17, 279.	0.7	2
92	Physiological proteins in resource-limited herbivores experiencing a population die-off. <i>Die Naturwissenschaften</i> , 2017, 104, 68.	0.6	2
93	Robust extraction of quantitative structural information from high-variance histological images of livers from necropsied Soay sheep. <i>Royal Society Open Science</i> , 2017, 4, 170111.	1.1	2
94	Partial immunity and SARS-CoV-2 mutationsâ€™Response. <i>Science</i> , 2021, 372, 354-355.	6.0	2
95	Optimal immune specificity at the intersection of host life history and parasite epidemiology. <i>PLoS Computational Biology</i> , 2021, 17, e1009714.	1.5	2
96	Evolution: Parasite Pressure Favors Fortress-like Defence. <i>Current Biology</i> , 2015, 25, R335-R337.	1.8	1
97	From population to individual host scale and back again: testing theories of infection and defence in the Soay sheep of St Kilda. , 2019, , 91-128.		1
98	Cover Image, Volume 29, Issue 4. <i>Hippocampus</i> , 2019, 29, C1-C1.	0.9	0
99	Title is missing!. , 2020, 16, e1008051.		0
100	Title is missing!. , 2020, 16, e1008051.		0
101	Title is missing!. , 2020, 16, e1008051.		0
102	Title is missing!. , 2020, 16, e1008051.		0