

# Richard J Delahay

## List of Publications by Year in descending order

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Version: 2024-02-01

99  
papers

3,435  
citations

136950

32  
h-index

161849

54  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3440  
citing authors

#	ARTICLE	IF	CITATIONS
1	Uptake of baits by wild badgers: Influences of deployment method, badger age and activity patterns on potential delivery of an oral vaccine. <i>Preventive Veterinary Medicine</i> , 2022, 206, 105702.	1.9	0
2	CMR<scp>net</scp>: An <scp>r</scp> package to derive networks of social interactions and movement from markâ€“recapture data. <i>Methods in Ecology and Evolution</i> , 2021, 12, 70-75.	5.2	12
3	Characterization of potential superspreader farms for bovine tuberculosis: A review. <i>Veterinary Medicine and Science</i> , 2021, 7, 310-321.	1.6	9
4	Genetic, social and maternal contributions to <i>Mycobacterium bovis</i> infection status in European badgers (<i>Meles meles</i>). <i>Journal of Evolutionary Biology</i> , 2021, 34, 695-709.	1.7	3
5	Assessing the risks of SARS-CoV-2 in wildlife. <i>One Health Outlook</i> , 2021, 3, 7.	3.4	87
6	Serologic responses correlate with current but not future bacterial shedding in badgers naturally infected with <i>Mycobacterium bovis</i> . <i>Transboundary and Emerging Diseases</i> , 2021, , .	3.0	2
7	Spatial and temporal variation in proximity networks of commercial dairy cattle in Great Britain. <i>Preventive Veterinary Medicine</i> , 2021, 194, 105443.	1.9	5
8	A novel approach for trap-side restraint and blood sampling in European badgers. <i>European Journal of Wildlife Research</i> , 2021, 67, 1.	1.4	1
9	Badger vaccination in England: Progress, operational effectiveness and participant motivations. <i>People and Nature</i> , 2020, 2, 761-775.	3.7	8
10	Estimating wildlife vaccination coverage using genetic methods. <i>Preventive Veterinary Medicine</i> , 2020, 183, 105096.	1.9	0
11	Effects of trading networks on the risk of bovine tuberculosis incidents on cattle farms in Great Britain. <i>Royal Society Open Science</i> , 2020, 7, 191806.	2.4	13
12	Evaluation of the Dual Path Platform (DPP) VetTB assay for the detection of <i>Mycobacterium bovis</i> infection in badgers. <i>Preventive Veterinary Medicine</i> , 2020, 180, 105005.	1.9	16
13	Genetic evidence further elucidates the history and extent of badger introductions from Great Britain into Ireland. <i>Royal Society Open Science</i> , 2020, 7, 200288.	2.4	9
14	Quantification of the Animal Tuberculosis Multi-Host Community Offers Insights for Control. <i>Pathogens</i> , 2020, 9, 421.	2.8	29
15	Identifying likely transmissions in <i>Mycobacterium bovis</i> infected populations of cattle and badgers using the Kolmogorov Forward Equations. <i>Scientific Reports</i> , 2020, 10, 21980.	3.3	2
16	No energetic cost of tuberculosis infection in European badgers (<i>Meles meles</i>). <i>Journal of Animal Ecology</i> , 2019, 88, 1973-1985.	2.8	7
17	Integrating social behaviour, demography and disease dynamics in network models: applications to disease management in declining wildlife populations. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180211.	4.0	64
18	Wildlife surveillance using deep learning methods. <i>Ecology and Evolution</i> , 2019, 9, 9453-9466.	1.9	45

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19	Predicting badger visits to farm yards and making predictions available to farmers. PLoS ONE, 2019, 14, e0216953.	2.5	3
20	Contact chains of cattle farms in Great Britain. Royal Society Open Science, 2019, 6, 180719.	2.4	20
21	Analysis of Lifetime Mortality Trajectories in Wildlife Disease Research: BaSTA and Beyond. Diversity, 2019, 11, 182.	1.7	4
22	Individual variation and the source-sink group dynamics of extra-group paternity in a social mammal. Behavioral Ecology, 2019, 30, 301-312.	2.2	3
23	The diversity of population responses to environmental change. Ecology Letters, 2019, 22, 342-353.	6.4	52
24	Combining genomics and epidemiology to analyse bi-directional transmission of Mycobacterium bovis in a multi-host system. ELife, 2019, 8, .	6.0	63
25	Contact networks structured by sex underpin sex-specific epidemiology of infection. Ecology Letters, 2018, 21, 309-318.	6.4	33
26	Modeling as a Decision Support Tool for Bovine TB Control Programs in Wildlife. Frontiers in Veterinary Science, 2018, 5, 276.	2.2	5
27	Social structure contains epidemics and regulates individual roles in disease transmission in a group-living mammal. Ecology and Evolution, 2018, 8, 12044-12055.	1.9	30
28	Bait uptake by wild badgers and its implications for oral vaccination against tuberculosis. PLoS ONE, 2018, 13, e0206136.	2.5	8
29	Investigation into the genetic diversity in toll-like receptors 2 and 4 in the European badger Meles meles. Research in Veterinary Science, 2018, 119, 228-231.	1.9	2
30	Inbreeding intensifies sex- and age-dependent disease in a wild mammal. Journal of Animal Ecology, 2018, 87, 1500-1511.	2.8	21
31	Badgers with bovine TB. Veterinary Record, 2018, 182, 721-721.	0.3	0
32	The application of statistical network models in disease research. Methods in Ecology and Evolution, 2017, 8, 1026-1041.	5.2	80
33	Seasonal variation in daily patterns of social contacts in the European badger <i>Meles meles</i> . Ecology and Evolution, 2017, 7, 9006-9015.	1.9	21
34	Using Social Network Measures in Wildlife Disease Ecology, Epidemiology, and Management. BioScience, 2017, 67, 245-257.	4.9	107
35	Abundance of badgers ( <i>Meles meles</i> ) in England and Wales. Scientific Reports, 2017, 7, 276.	3.3	31
36	Inference of the infection status of individuals using longitudinal testing data from cryptic populations: Towards a probabilistic approach to diagnosis. Scientific Reports, 2017, 7, 1111.	3.3	24

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37	Field evaluation of candidate baits for oral delivery of BCG vaccine to European badgers, <i>Meles meles</i> . <i>Vaccine</i> , 2017, 35, 4402-4407.	3.8	12
38	Development of a novel immunochromatographic lateral flow assay specific for <i>Mycobacterium bovis</i> cells and its application in combination with immunomagnetic separation to test badger faeces. <i>BMC Veterinary Research</i> , 2017, 13, 131.	1.9	22
39	Model of Selective and Non-Selective Management of Badgers ( <i>Meles meles</i> ) to Control Bovine Tuberculosis in Badgers and Cattle. <i>PLoS ONE</i> , 2016, 11, e0167206.	2.5	17
40	Behaviour of European badgers and non-target species towards candidate baits for oral delivery of a tuberculosis vaccine. <i>Preventive Veterinary Medicine</i> , 2016, 135, 95-101.	1.9	17
41	Demographic buffering and compensatory recruitment promotes the persistence of disease in a wildlife population. <i>Ecology Letters</i> , 2016, 19, 443-449.	6.4	45
42	Age-related declines in immune response in a wild mammal are unrelated to immune cell telomere length. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152949.	2.6	25
43	Blood thicker than water: kinship, disease prevalence and group size drive divergent patterns of infection risk in a social mammal. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160798.	2.6	14
44	Exclusions for resolving urban badger damage problems: outcomes and consequences. <i>PeerJ</i> , 2016, 4, e2579.	2.0	2
45	Association of quantitative interferon- $\gamma$ responses with the progression of naturally acquired <i>Mycobacterium bovis</i> infection in wild European badgers ( <i>Meles meles</i> ). <i>Immunology</i> , 2015, 144, 263-270.	4.4	20
46	Sex differences in senescence: the role of intra-sexual competition in early adulthood. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151086.	2.6	53
47	The variability and seasonality of the environmental reservoir of <i>Mycobacterium bovis</i> shed by wild European badgers. <i>Scientific Reports</i> , 2015, 5, 12318.	3.3	31
48	High prevalence of trypanosomes in European badgers detected using ITS-PCR. <i>Parasites and Vectors</i> , 2015, 8, 480.	2.5	9
49	Performance of a Noninvasive Test for Detecting <i>Mycobacterium bovis</i> Shedding in European Badger ( <i>Meles meles</i> ) Populations. <i>Journal of Clinical Microbiology</i> , 2015, 53, 2316-2323.	3.9	24
50	Exposure of nontarget wildlife to candidate TB vaccine baits deployed for European badgers. <i>European Journal of Wildlife Research</i> , 2015, 61, 263-269.	1.4	9
51	Resource availability affects individual niche variation and its consequences in group-living European badgers <i>Meles meles</i> . <i>Oecologia</i> , 2015, 178, 31-43.	2.0	39
52	What has molecular epidemiology ever done for wildlife disease research? Past contributions and future directions. <i>European Journal of Wildlife Research</i> , 2015, 61, 1-16.	1.4	21
53	Control of bovine tuberculosis in New Zealand in the face of a wildlife host: a compiled review of 50 years of programme policy, design and research. <i>New Zealand Veterinary Journal</i> , 2015, 63, 2-3.	0.9	1
54	Group size correlates with territory size in European badgers: implications for the resource dispersion hypothesis?. <i>Oikos</i> , 2015, 124, 507-514.	2.7	5

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55	Winter Is Coming: Seasonal Variation in Resting Metabolic Rate of the European Badger ( <i>Meles meles</i> ). PLoS ONE, 2015, 10, e0135920.	2.5	24
56	Crossing the Interspecies Barrier: Opening the Door to Zoonotic Pathogens. PLoS Pathogens, 2014, 10, e1004129.	4.7	135
57	Mortality trajectory analysis reveals the drivers of sex-specific epidemiology in natural wildlife-disease interactions. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140526.	2.6	24
58	Individual foraging specialisation in a social mammal: the European badger ( <i>Meles meles</i> ). Oecologia, 2014, 176, 409-421.	2.0	40
59	Density and abundance of badger social groups in England and Wales in 2011-2013. Scientific Reports, 2014, 4, 3809.	3.3	45
60	Impacts of Removing Badgers on Localised Counts of Hedgehogs. PLoS ONE, 2014, 9, e95477.	2.5	34
61	Age-Related Declines and Disease-Associated Variation in Immune Cell Telomere Length in a Wild Mammal. PLoS ONE, 2014, 9, e108964.	2.5	37
62	Denning behaviour of the European badger ( <i>Meles meles</i> ) correlates with bovine tuberculosis infection status. Behavioral Ecology and Sociobiology, 2013, 67, 471-479.	1.4	31
63	Badger social networks correlate with tuberculosis infection. Current Biology, 2013, 23, R915-R916.	3.9	121
64	Whisker growth in wild Eurasian badgers <i>Meles meles</i> : implications for stable isotope and bait marking studies. European Journal of Wildlife Research, 2013, 59, 341-350.	1.4	20
65	Uptake of buried baits by badgers: Implications for rabies control in Great Britain and the delivery of an oral TB vaccine. Wildlife Society Bulletin, 2012, 36, 220-225.	1.6	3
66	<i>Mycobacterium bovis</i> infection in badger cubs: Re-assessing the evidence for maternally derived immunological protection from advanced disease. Veterinary Immunology and Immunopathology, 2012, 148, 326-330.	1.2	6
67	Performance of Proximity Loggers in Recording Intra- and Inter-Species Interactions: A Laboratory and Field-Based Validation Study. PLoS ONE, 2012, 7, e39068.	2.5	63
68	BCG Vaccination Reduces Risk of Tuberculosis Infection in Vaccinated Badgers and Unvaccinated Badger Cubs. PLoS ONE, 2012, 7, e49833.	2.5	93
69	The status of tuberculosis in European wild mammals. Mammal Review, 2012, 42, 193-206.	4.8	168
70	An Inter-Laboratory Validation of a Real Time PCR Assay to Measure Host Excretion of Bacterial Pathogens, Particularly of <i>Mycobacterium bovis</i> . PLoS ONE, 2011, 6, e27369.	2.5	22
71	Effectiveness of Biosecurity Measures in Preventing Badger Visits to Farm Buildings. PLoS ONE, 2011, 6, e28941.	2.5	49
72	Advances and prospects for management of TB transmission between badgers and cattle. Veterinary Microbiology, 2011, 151, 43-50.	1.9	39

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73	Evaluating seasonal bait delivery to badgers using rhodamine B. <i>European Journal of Wildlife Research</i> , 2011, 57, 35-43.	1.4	11
74	Assessing spatiotemporal associations in the occurrence of badger-human conflict in England. <i>European Journal of Wildlife Research</i> , 2011, 57, 67-76.	1.4	7
75	A study of fox ( <i>Vulpes vulpes</i> ) visits to farm buildings in Southwest England and the implications for disease management. <i>European Journal of Wildlife Research</i> , 2011, 57, 1227-1230.	1.4	11
76	Bacillus Calmette-Guérin vaccination reduces the severity and progression of tuberculosis in badgers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1913-1920.	2.6	125
77	Diagnostic Accuracy and Optimal Use of Three Tests for Tuberculosis in Live Badgers. <i>PLoS ONE</i> , 2010, 5, e11196.	2.5	58
78	ESTIMATING THE RISK OF CATTLE EXPOSURE TO TUBERCULOSIS POSED BY WILD DEER RELATIVE TO BADGERS IN ENGLAND AND WALES. <i>Journal of Wildlife Diseases</i> , 2009, 45, 1104-1120.	0.8	23
79	Behaviour of badgers ( <i>Meles meles</i> ) in farm buildings: Opportunities for the transmission of <i>Mycobacterium bovis</i> to cattle?. <i>Applied Animal Behaviour Science</i> , 2009, 117, 103-113.	1.9	41
80	Spatial Organization of the Yellow-Necked Mouse: Effects of Density and Resource Availability. <i>Journal of Mammalogy</i> , 2009, 90, 704-714.	1.3	46
81	The behavioural responses of badgers ( <i>Meles meles</i> ) to exclusion from farm buildings using an electric fence. <i>Applied Animal Behaviour Science</i> , 2008, 113, 224-235.	1.9	17
82	Deterrent or dinner bell? Alteration of badger activity and feeding at baited plots using ultrasonic and water jet devices. <i>Applied Animal Behaviour Science</i> , 2008, 115, 221-232.	1.9	6
83	Experimental evidence of competitive release in sympatric carnivores. <i>Biology Letters</i> , 2008, 4, 170-172.	2.3	66
84	Perturbing implications of wildlife ecology for disease control. <i>Trends in Ecology and Evolution</i> , 2008, 23, 53-56.	8.7	66
85	Validation of the BrockTB Stat-Pak Assay for Detection of Tuberculosis in Eurasian Badgers ( <i>Meles</i> ). <i>Trends in Ecology and Evolution</i> , 2008, 23, 1498-1500.	3.9	61
86	Culling-induced social perturbation in Eurasian badgers ( <i>Meles meles</i> ) and the management of TB in cattle: an analysis of a critical problem in applied ecology. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2769-2777.	2.6	111
87	Effects of bait type and deployment strategy on uptake by free-living badgers. <i>Wildlife Research</i> , 2007, 34, 454.	1.4	12
88	Genetic evidence that culling increases badger movement: implications for the spread of bovine tuberculosis. <i>Molecular Ecology</i> , 2007, 16, 4919-4929.	3.9	59
89	Zoo and Wildlife Medical Education: A European Perspective. <i>Journal of Veterinary Medical Education</i> , 2006, 33, 401-407.	0.6	6
90	Antibodies to <i>Toxoplasma gondii</i> in Eurasian Badgers. <i>Journal of Wildlife Diseases</i> , 2006, 42, 179-181.	0.8	13

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91	Culling and cattle controls influence tuberculosis risk for badgers. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14713-14717.	7.1	134
92	Birds in the diet of the Eurasian badger <i>Meles meles</i> : a review and meta-analysis. Mammal Review, 2005, 35, 199-209.	4.8	20
93	Can learned aversion be used to control bait uptake by Eurasian badgers?. Applied Animal Behaviour Science, 2005, 92, 159-168.	1.9	15
94	Options for the management of bovine tuberculosis transmission from badgers ( <i>Meles meles</i> ) to cattle: evidence from a long-term study. Mammal Study, 2005, 30, S73-S81.	0.6	11
95	Mating system of the Eurasian badger, <i>Meles meles</i> , in a high density population. Molecular Ecology, 2004, 14, 273-284.	3.9	83
96	The diet of Little Owls <i>Athene noctua</i> in Gloucestershire, England. Bird Study, 2004, 51, 282-284.	1.0	19
97	A review of methods to estimate the abundance of terrestrial carnivores using field signs and observation. Wildlife Research, 2001, 28, 151.	1.4	255
98	Absence of Antibodies Against Canine Distemper Virus in Free-ranging Populations of the Eurasian Badger in Great Britain. Journal of Wildlife Diseases, 2000, 36, 576-579.	0.8	11
99	CESTODIASIS IN THE RED GROUSE IN SCOTLAND. Journal of Wildlife Diseases, 1999, 35, 250-258.	0.8	7