Kevin D Kohl

List of Publications by Citations

76 papers	2,613 citations	27 h-index	50 g-index
82 ext. papers	3,791 ext. citations	4.6 avg, IF	5.98 L-index

#	Paper	IF	Citations
76	Phylosymbiosis: Relationships and Functional Effects of Microbial Communities across Host Evolutionary History. *PLoS Biology*, **2016**, 14, e2000225	9.7	250
75	Gut microbes of mammalian herbivores facilitate intake of plant toxins. *Ecology Letters*, **2014**, 17, 1238-46	10	171
74	Diversity and function of the avian gut microbiota. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2012**, 182, 591-602	2.2	154
73	Unique and shared responses of the gut microbiota to prolonged fasting: a comparative study across five classes of vertebrate hosts. *FEMS Microbiology Ecology*, **2014**, 90, 883-94	4.3	134
72	Conservation biology needs a microbial renaissance: a call for the consideration of host-associated microbiota in wildlife management practices. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20182448	4.4	118
71	Gut microbial ecology of lizards: insights into diversity in the wild, effects of captivity, variation across gut regions and transmission. *Molecular Ecology*, **2017**, 26, 1175-1189	5.7	93
70	Captivity results in disparate loss of gut microbial diversity in closely related hosts **2014**, 2, cou009		88
69	Restructuring of the amphibian gut microbiota through metamorphosis. *Environmental Microbiology Reports*, **2013**, 5, 899-903	3.7	87
68	Experience matters: prior exposure to plant toxins enhances diversity of gut microbes in herbivores. *Ecology Letters*, **2012**, 15, 1008-15	10	74
67	Effects of environmental temperature on the gut microbial communities of tadpoles. *Environmental Microbiology*, **2016**, 18, 1561-5	5.2	74
66	Early-life disruption of amphibian microbiota decreases later-life resistance to parasites. *Nature Communications*, **2017**, 8, 86	17.4	72
65	Wild-caught rodents retain a majority of their natural gut microbiota upon entrance into captivity. *Environmental Microbiology Reports*, **2014**, 6, 191-5	3.7	71
64	Do wild carnivores forage for prey or for nutrients? Evidence for nutrient-specific foraging in vertebrate predators. *BioEssays*, **2015**, 37, 701-9	4.1	57
63	A place for host-microbe symbiosis in the comparative physiologist's toolbox. *Journal of Experimental Biology*, **2016**, 219, 3496-3504	3	57
62	Gut microbial communities of American pikas (Ochotona princeps): Evidence for phylosymbiosis and adaptations to novel diets. *Journal of Animal Ecology*, **2018**, 87, 323-330	4.7	54
61	Herbivorous rodents (Neotoma spp.) harbour abundant and active foregut microbiota. *Environmental Microbiology*, **2014**, 16, 2869-78	5.2	54
60	The gastrointestinal tract of the white-throated Woodrat (Neotoma albigula) harbors distinct consortia of oxalate-degrading bacteria. *Applied and Environmental Microbiology*, **2014**, 80, 1595-601	4.8	53

59	Environmental temperature alters the digestive performance and gut microbiota of a terrestrial amphibian. *Journal of Experimental Biology*, **2018**, 221,	3	48
58	Inoculation of tannin-degrading bacteria into novel hosts increases performance on tannin-rich diets. *Environmental Microbiology*, **2016**, 18, 1720-9	5.2	45
57	Developmental adjustments of house sparrow (Passer domesticus) nestlings to diet composition. *Journal of Experimental Biology*, **2009**, 212, 1284-93	3	44
56	Microbial detoxification in the gut of a specialist avian herbivore, the Greater Sage-Grouse. *FEMS Microbiology Letters*, **2016**, 363,	2.9	43
55	Microbial communities exhibit host species distinguishability and phylosymbiosis along the length of the gastrointestinal tract. *Molecular Ecology*, **2018**, 27, 1874-1883	5.7	41
54	The Woodrat Gut Microbiota as an Experimental System for Understanding Microbial Metabolism of Dietary Toxins. *Frontiers in Microbiology*, **2016**, 7, 1165	5.7	38
53	Natural diets promote retention of the native gut microbiota in captive rodents. *ISME Journal*, **2020** , 14, 67-78	11.9	37
52	Larval exposure to polychlorinated biphenyl 126 (PCB-126) causes persistent alteration of the amphibian gut microbiota. *Environmental Toxicology and Chemistry*, **2015**, 34, 1113-8	3.8	34
51	Diversity and novelty of the gut microbial community of an herbivorous rodent (Neotoma bryanti). *Symbiosis*, **2011**, 54, 47-54	3	29
50	Coprophagy prevention alters microbiome, metabolism, neurochemistry, and cognitive behavior in a small mammal. *ISME Journal*, **2020**, 14, 2625-2645	11.9	27
49	Do host-associated gut microbiota mediate the effect of an herbicide on disease risk in frogs?. *Journal of Animal Ecology*, **2018**, 87, 489-499	4.7	27
48	Ecological and evolutionary mechanisms underlying patterns of phylosymbiosis in host-associated microbial communities. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190251	5.8	27
47	Physiological and microbial adjustments to diet quality permit facultative herbivory in an omnivorous lizard. *Journal of Experimental Biology*, **2016**, 219, 1903-12	3	26
46	microbial communities: a potential mechanism for the initial acquisition of gut microbiota among oviparous birds and lizards. *Biology Letters*, **2018**, 14,	3.6	26
45	Gut microbes limit growth in house sparrow nestlings (Passer domesticus) but not through limitations in digestive capacity. *Integrative Zoology*, **2018**, 13, 139-151	1.9	26
44	Experimental Evolution on a Wild Mammal Species Results in Modifications of Gut Microbial Communities. *Frontiers in Microbiology*, **2016**, 7, 634	5.7	25
43	Beyond Fermentation: Other Important Services Provided to Endothermic Herbivores by their Gut Microbiota. *Integrative and Comparative Biology*, **2017**, 57, 723-731	2.8	24
42	Pancreatic and intestinal carbohydrases are matched to dietary starch level in wild passerine birds. *Physiological and Biochemical Zoology*, **2011**, 84, 195-203	2	24

41	Monoterpenes as inhibitors of digestive enzymes and counter-adaptations in a specialist avian herbivore. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology* , **2015**, 185, 425-34	2.2	23
40	Urea hydrolysis by gut bacteria in a hibernating frog: evidence for urea-nitrogen recycling in Amphibia. *Proceedings of the Royal Society B: Biological Sciences*, **2018**, 285,	4.4	22
39	Parasite microbiome project: Grand challenges. *PLoS Pathogens*, **2019**, 15, e1008028	7.6	22
38	Dietary shifts influenced by livestock grazing shape the gut microbiota composition and co-occurrence networks in a local rodent species. *Journal of Animal Ecology*, **2019**, 88, 302-314	4.7	22
37	Early-Life Diet Affects Host Microbiota and Later-Life Defenses Against Parasites in Frogs. *Integrative and Comparative Biology*, **2017**, 57, 732-742	2.8	20
36	Age-related changes in the gut microbiota of wild House Sparrow nestlings. *Ibis*, **2019**, 161, 184-191	1.9	19
35	An Introductory "How-to" Guide for Incorporating Microbiome Research into Integrative and Comparative Biology. *Integrative and Comparative Biology*, **2017**, 57, 674-681	2.8	19
34	Fully reversible phenotypic plasticity of digestive physiology in young house sparrows: lack of long-term effect of early diet composition. *Journal of Experimental Biology*, **2011**, 214, 2755-60	3	19
33	Effects of anatomy and diet on gastrointestinal pH in rodents. *Journal of Experimental Zoology*, **2013**, 319, 225-9		15
32	Metagenomic sequencing provides insights into microbial detoxification in the guts of small mammalian herbivores (Neotoma spp.). *FEMS Microbiology Ecology*, **2018**, 94,	4.3	13
31	Modulation of digestive enzyme activities in the avian digestive tract in relation to diet composition and quality. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2017**, 187, 339-351	2.2	12
30	Validating the use of trap-collected feces for studying the gut microbiota of a small mammal (Neotoma lepida). *Journal of Mammalogy*, **2015**, 96, 90-93	1.8	11
29	Evaluation of non-lethal gut microbiome sampling methods in a passerine bird. *Ibis*, **2020**, 162, 911-923	1.9	11
28	Gestation alters the gut microbiota of an oviparous lizard. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	10
27	Effect of age and diet composition on activity of pancreatic enzymes in birds. *Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology*, **2013**, 183, 685-97	2.2	10
26	Evolutionary irony: evidence that ‘defensive’ plant spines act as a proximate cue to attract a mammalian herbivore. *Oikos*, **2015**, 124, 835-841	4	9
25	A bird’s-eye view of phylosymbiosis: weak signatures of phylosymbiosis among all 15 species of cranes. *Proceedings of the Royal Society B: Biological Sciences*, **2020**, 287, 20192988	4.4	9
24	Physiological and behavioural effects of fruit toxins on seed-predating versus seed-dispersing congeneric rodents. *Journal of Experimental Biology*, **2013**, 216, 3667-73	3	9

23	Activity of intestinal carbohydrases responds to multiple dietary signals in nestling house sparrows. *Journal of Experimental Biology*, **2013**, 216, 3981-7	3	8
22	Using the Specialization Framework to Determine Degree of Dietary Specialization in a Herbivorous Woodrat. *Journal of Chemical Ecology*, **2015**, 41, 1059-68	2.7	8
21	Microbiome stability and structure is governed by host phylogeny over diet and geography in woodrats (spp.). *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	7
20	Effects of Fruit Toxins on Intestinal and Microbial Glucosidase Activities of Seed-Predating and Seed-Dispersing Rodents (Acomys spp.). *Physiological and Biochemical Zoology*, **2016**, 89, 198-205	2	6
19	Induced and constitutive responses of digestive enzymes to plant toxins in an herbivorous mammal. *Journal of Experimental Biology*, **2011**, 214, 4133-40	3	6
18	Symbiotic microbes and potential pathogens in the intestine of dead southern right whale (Eubalaena australis) calves. *Anaerobe*, **2019**, 57, 107-114	2.8	5
17	Gut microbiota of invasive bullfrog tadpoles responds more rapidly to temperature than a noninvasive congener. *Molecular Ecology*, **2020**, 29, 2449-2462	5.7	5
16	Optimal integration between host physiology and functions of the gut microbiome. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2020**, 375, 20190594	5.8	5
15	A Microbial Perspective on the Grand Challenges in Comparative Animal Physiology. *MSystems*, **2018**, 3,	7.6	4
14	Two\'s company, three\'s a crowd: Exploring how host-parasite-microbiota interactions may influence disease susceptibility and conservation of wildlife. *Molecular Ecology*, **2020**, 29, 1402-1405	5.7	3
13	Patterns of host gene expression associated with harboring a foregut microbial community. *BMC Genomics*, **2017**, 18, 697	4.5	3
12	Intestinal Lymphatic Transport: an Overlooked Pathway for Understanding Absorption of Plant Secondary Compounds in Vertebrate Herbivores. *Journal of Chemical Ecology*, **2017**, 43, 290-294	2.7	2
11	Elements of disturbance that affect epiphyte vitality in a temperate rainforest: an experimental approach. *Journal of Plant Ecology*, **2019**, 12, 306-313	1.7	1
10	Plant secondary compound- and antibiotic-induced community disturbances improve the establishment of foreign gut microbiota.. *FEMS Microbiology Ecology*, **2022**,	4.3	1
9	MIxS-SA: a MIxS extension defining the minimum information standard for sequence data from symbiont-associated micro-organisms. *ISME Communications*, **2022**, 2,		1
8	Context-dependent effects of glucocorticoids on the lizard gut microbiome. *Molecular Ecology*, **2021**, 31, 185	5.7	1
7	Stabilization and optimization of host-microbe-environment interactions as a potential reason for the behavior of natal philopatry. *Animal Microbiome*, **2021**, 3, 26	4.1	1
6	Abundance and Compositions of B-Vitamin-Producing Microbes in the Mammalian Gut Vary Based on Feeding Strategies. *MSystems*, **2021**, e0031321	7.6	1

5	The gut microbiome influences host diet selection behavior.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2117537119	11.5	1
4	Low activities of digestive enzymes in the guts of herbivorous grouse (Aves: Tetraoninae). *Journal of Ornithology*, **2021**, 162, 477-485	1.5	0
3	Intestinal lactase activity in southern right whale calves (Eubalaena australis). *Marine Mammal Science*, **2015**, 31, 398-403	1.9	
2	With a Little Help from My Friends: Microbial Partners in Integrative and Comparative Biology-An Introduction to the Symposium. *Integrative and Comparative Biology*, **2017**, 57, 669-673	2.8	
1	Clonality and Dynamics of Leaf Abscission of Gambel Oaks at Small Spatial Scales in Utah. *Forest Science*, **2015**, 61, 829-833	1.4	