John S Gilleard

List of Publications by Year
in descending order

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115 papers	5,232 citations	70961 41 h-index	106150 65 g-index
130 all docs	130 docs citations	130 times ranked	3926 citing authors

#	Article	IF	Citations
1	Acaricide resistance in cattle ticks and approaches to its management: The state of play. Veterinary Parasitology, 2014, 203, 6-20.	0.7	299
2	The genome and transcriptome of Haemonchus contortus, a key model parasite for drug and vaccine discovery. Genome Biology, 2013, 14, R88.	13.9	293
3	Exploring the Gastrointestinal â€œNemabiomeâ€ Deep Amplicon Sequencing to Quantify the Species Composition of Parasitic Nematode Communities. PLoS ONE, 2015, 10, e0143559.	1.1	181
4	Caenorhabditis elegans is a useful model for anthelmintic discovery. Nature Communications, 2015, 6, 7485.	5.8	163
5	Understanding anthelmintic resistance: The need for genomics and genetics. International Journal for Parasitology, 2006, 36, 1227-1239.	1.3	151
6	Recent advances in candidate-gene and whole-genome approaches to the discovery of anthelmintic resistance markers and the description of drug/receptor interactions. International Journal for Parasitology: Drugs and Drug Resistance, 2014, 4, 164-184.	1.4	149
7	RNA interference in parasitic helminths: current situation, potential pitfalls and future prospects. Parasitology, 2006, 134, 609-619.	0.7	138
8	Testing the efficacy of RNA interference in Haemonchus contortus. International Journal for Parasitology, 2006, 36, 801-810.	1.3	125
9	The Emergence of Resistance to the Benzimidazole Anthlemintics in Parasitic Nematodes of Livestock Is Characterised by Multiple Independent Hard and Soft Selective Sweeps. PLoS Neglected Tropical Diseases, 2015, 9, e0003494.	1.3	120
10	Haemonchus contortusas a paradigm and model to study anthelmintic drug resistance. Parasitology, 2013, 140, 1506-1522.	0.7	114
11	Population genetics of anthelmintic resistance in parasitic nematodes. Parasitology, 2007, 134, 1133-1147.	0.7	113
12	Activation of Hypodermal Differentiation in the Caenorhabditis elegans Embryo by GATA Transcription Factors ELT-1 and ELT-3. Molecular and Cellular Biology, 2001, 21, 2533-2544.	1.1	107
13	Anthelmintic resistance: markers for resistance, or susceptibility?. Parasitology, 2011, 138, 160-174.	0.7	96
14	ELT-3: ACaenorhabditis elegansGATA Factor Expressed in the Embryonic Epidermis during Morphogenesis. Developmental Biology, 1999, 208, 265-280.	0.9	93
15	Multiple drug resistance in the canine hookworm Ancylostoma caninum: an emerging threat?. Parasites and Vectors, 2019, 12, 576.	1.0	92
16	The use of nemabiome metabarcoding to explore gastro-intestinal nematode species diversity and anthelmintic treatment effectiveness in beef calves. International Journal for Parasitology, 2017, 47, 893-902.	1.3	91
17	Genomic and transcriptomic variation defines the chromosome-scale assembly of Haemonchus contortus, a model gastrointestinal worm. Communications Biology, 2020, 3, 656.	2.0	91
18	Microsatellite analysis reveals marked genetic differentiation between Haemonchus contortus laboratory isolates and provides a rapid system of genetic fingerprinting. International Journal for Parasitology, 2008, 38, 111-122.	1.3	84

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19	Negative covariance between parasite load and body condition in a population of feral horses. Parasitology, 2016, 143, 983-997.	0.7	82
20	Botanicals: an alternative approach for the control of avian coccidiosis. World's Poultry Science Journal, 2012, 68, 203-215.	1.4	81
21	Deep amplicon sequencing as a powerful new tool to screen for sequence polymorphisms associated with anthelmintic resistance in parasitic nematode populations. International Journal for Parasitology, 2019, 49, 13-26.	1.3	81
22	Diversity in parasitic nematode genomes: the microRNAs of Brugia pahangi and Haemonchus contortus are largely novel. BMC Genomics, 2012, 13, 4.	1.2	76
23	Genetic evidence for the spread of a benzimidazole resistance mutation across southern India from a single origin in the parasitic nematode Haemonchus contortus. International Journal for Parasitology, 2015, 45, 721-728.	1.3	75
24	A survey of the trichostrongylid nematode species present on UK sheep farms and associated anthelmintic control practices. Veterinary Parasitology, 2012, 189, 299-307.	0.7	72
25	Parasite prevalence in fecal samples from shelter dogs and cats across the Canadian provinces. Parasites and Vectors, 2015, 8, 281.	1.0	70
26	Genetic Diversity and Population Structure of Haemonchus contortus. Advances in Parasitology, 2016, 93, 31-68.	1.4	70
27	Population genomic and evolutionary modelling analyses reveal a single major QTL for ivermectin drug resistance in the pathogenic nematode, Haemonchus contortus. BMC Genomics, 2019, 20, 218.	1.2	68
28	Population genetic analysis of the ovine parasitic nematode Teladorsagia circumcincta and evidence for a cryptic species. International Journal for Parasitology, 2007, 37, 435-447.	1.3	65
29	Introgression of Ivermectin Resistance Genes into a Susceptible Haemonchus contortus Strain by Multiple Backcrossing. PLoS Pathogens, 2012, 8, e1002534.	2.1	62
30	The use of Caenorhabditis elegans in parasitic nematode research. Parasitology, 2004, 128, S49-S70.	0.7	59
31	Characterization of the xenobiotic response of Caenorhabditis elegans to the anthelmintic drug albendazole and the identification of novel drug glucoside metabolites. Biochemical Journal, 2010, 432, 505-516.	1.7	59
32	A Genome Resequencing-Based Genetic Map Reveals the Recombination Landscape of an Outbred Parasitic Nematode in the Presence of Polyploidy and Polyandry. Genome Biology and Evolution, 2018, 10, 396-409.	1.1	58
33	Characterization and comparative analysis of the complete Haemonchus contortus Î²-tubulin gene family and implications for benzimidazole resistance in strongylid nematodes. International Journal for Parasitology, 2013, 43, 465-475.	1.3	53
34	Genetic evidence for hybridisation between Haemonchus contortus and Haemonchus placei in natural field populations and its implications for interspecies transmission of anthelmintic resistance. International Journal for Parasitology, 2015, 45, 149-159.	1.3	53
35	A case of canine Angiostrongylus vasorum in Scotland confirmed by PCR and sequence analysis. Journal of Small Animal Practice, 2009, 50, 255-259.	0.5	52
36	Benzimidazole resistance allele haplotype diversity in United Kingdom isolates of Teladorsagia circumcincta supports a hypothesis of multiple origins of resistance by recurrent mutation. International Journal for Parasitology, 2010, 40, 1247-1255.	1.3	49

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37	Validation of ITS-2 rDNA nemabiome sequencing for ovine gastrointestinal nematodes and its application to a large scale survey of UK sheep farms. Veterinary Parasitology, 2019, 275, 108933.	0.7	48
38	Diagnostic tools for soil-transmitted helminths control and elimination programs: A pathway for diagnostic product development. PLoS Neglected Tropical Diseases, 2018, 12, e0006213.	1.3	46
39	Ectopic expression of a Haemonchus contortus GATA transcription factor in Caenorhabditis elegans reveals conserved function in spite of extensive sequence divergence. Molecular and Biochemical Parasitology, 2004, 133, 241-253.	0.5	44
40	The presence of benzimidazole resistance mutations in Haemonchus placei from US cattle. Veterinary Parasitology, 2014, 204, 411-415.	0.7	44
41	Challenges and opportunities for the adoption of molecular diagnostics for anthelmintic resistance. International Journal for Parasitology: Drugs and Drug Resistance, 2020, 14, 264-273.	1.4	44
42	Characterisation of Teladorsagia circumcincta microsatellites and their development as population genetic markersâ¯†. Molecular and Biochemical Parasitology, 2006, 148, 181-189.	0.5	43
43	Extensive diversity in repeat unit sequences of the cDNA encoding the polyprotein antigen/allergen from the bovine lungworm Dictyocaulus viviparus. Molecular and Biochemical Parasitology, 1995, 72, 77-88.	0.5	41
44	A journey through 50 years of research relevant to the control of gastrointestinal nematodes in ruminant livestock and thoughts on future directions. International Journal for Parasitology, 2021, 51, 1133-1151.	1.3	41
45	Genetics of Mating and Sex Determination in the Parasitic Nematode Haemonchus contortus. Genetics, 2008, 180, 1877-1887.	1.2	40
46	The prevalence of intestinal parasites in dogs and cats in Calgary, Alberta. Canadian Veterinary Journal, 2011, 52, 1323-8.	0.0	39
47	A database for ITS2 sequences from nematodes. BMC Genetics, 2020, 21, 74.	2.7	36
48	A repeatable and quantitative DNA metabarcoding assay to characterize mixed strongyle infections in horses. International Journal for Parasitology, 2021, 51, 183-192.	1.3	36
49	The cytochrome P450 family in the parasitic nematode Haemonchus contortus. International Journal for Parasitology, 2015, 45, 243-251.	1.3	35
50	Onchocerca lupiNematodes in Dogs Exported from the United States into Canada. Emerging Infectious Diseases, 2016, 22, 1477-1479.	2.0	32
51	The Transcriptional Response of Caenorhabditis elegans to Ivermectin Exposure Identifies Novel Genes Involved in the Response to Reduced Food Intake. PLoS ONE, 2012, 7, e31367.	1.1	31
52	Resequencing Helminth Genomes for Population and Genetic Studies. Trends in Parasitology, 2017, 33, 388-399.	1.5	31
53	High species diversity of trichostrongyle parasite communities within and between Western Canadian commercial and conservation bison herds revealed by nemabiome metabarcoding. Parasites and Vectors, 2018, 11, 299.	1.0	31
54	Model-organism genomics in veterinary parasite drug-discovery. Trends in Parasitology, 2005, 21, 302-305.	1.5	29

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55	Microsatellite marker analysis of Haemonchus contortus populations from Pakistan suggests that frequent benzimidazole drug treatment does not result in a reduction of overall genetic diversity. Parasites and Vectors, 2016, 9, 349.	1.0	29
56	Treatment with Cestode Parasite Antigens Results in Recruitment of CCR2 ⁺ Myeloid Cells, the Adoptive Transfer of Which Ameliorates Colitis. Infection and Immunity, 2016, 84, 3471-3483.	1.0	29
57	Multiple drug resistance in hookworms infecting greyhound dogs in the USA. International Journal for Parasitology: Drugs and Drug Resistance, 2021, 17, 107-117.	1.4	28
58	Evidence from two independent backcross experiments supports genetic linkage of microsatellite Hcms8a20, but not other candidate loci, to a major ivermectin resistance locus in Haemonchus contortus. International Journal for Parasitology, 2016, 46, 653-661.	1.3	27
59	Wild ruminants as reservoirs of domestic livestock gastrointestinal nematodes. Veterinary Parasitology, 2020, 279, 109041.	0.7	26
60	The Caenorhabditis elegans GATA factor elt-1 is essential for differentiation and maintenance of hypodermal seam cells and for normal locomotion. Journal of Cell Science, 2005, 118, 5709-5719.	1.2	25
61	Hepatogenous photosensitisation in Scottish sheep casued by Dicrocoelium dendriticum. Veterinary Parasitology, 2012, 189, 233-237.	0.7	25
62	Increased Expression of a MicroRNA Correlates with Anthelmintic Resistance in Parasitic Nematodes. Frontiers in Cellular and Infection Microbiology, 2017, 7, 452.	1.8	25
63	Assessing anthelmintic resistance risk in the post-genomic era: a proof-of-concept study assessing the potential for widespread benzimidazole-resistant gastrointestinal nematodes in North American cattle and bison. Parasitology, 2020, 147, 897-906.	0.7	25
64	Annotation of Two Large Contiguous Regions from the Haemonchus contortus Genome Using RNA-seq and Comparative Analysis with Caenorhabditis elegans. PLoS ONE, 2011, 6, e23216.	1.1	22
65	The optimal timing of post-treatment sampling for the assessment of anthelminthic drug efficacy against Ascaris infections in humans. International Journal for Parasitology: Drugs and Drug Resistance, 2018, 8, 67-69.	1.4	21
66	A novel multiplex PCR-electronic microarray assay for rapid and simultaneous detection of bovine respiratory and enteric pathogens. Journal of Virological Methods, 2018, 261, 51-62.	1.0	21
67	The use of ITS-2 rDNA nemabiome metabarcoding to enhance anthelmintic resistance diagnosis and surveillance of ovine gastrointestinal nematodes. International Journal for Parasitology: Drugs and Drug Resistance, 2020, 14, 105-117.	1.4	21
68	Toxocara vitulorum infection in a cattle herd in the UK. Veterinary Record, 2009, 164, 171-172.	0.2	20
69	Characterisation of milbemycinâ€, avermectinâ€, imidazothiazoleâ€•and benzimidazoleâ€•resistant Teladorsagia circumcincta from a sheep flock. Veterinary Record, 2010, 166, 681-686.	0.2	20
70	Molecular evidence shows that the liver fluke Fasciola gigantica is the predominant Fasciola species in ruminants from Pakistan. Journal of Helminthology, 2016, 90, 206-213.	0.4	20
71	Teladorsagia circumcincta: The transcriptomic response of a multi-drug-resistant isolate to ivermectin exposure in vitro. Experimental Parasitology, 2011, 127, 351-356.	0.5	19
72	Haemonchus contortus. Advances in Parasitology, 2016, 93, 569-598.	1.4	19

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73	Large scale screening for benzimidazole resistance mutations in Nematodirus battus, using both pyrosequence genotyping and deep amplicon sequencing, indicates the early emergence of resistance on UK sheep farms. International Journal for Parasitology: Drugs and Drug Resistance, 2020, 12, 68-76.	1.4	19
74	Resurrection and redescription of Varestrongylus alces (Nematoda: Protostrongylidae), a lungworm of the Eurasian moose (Alces alces), with report on associated pathology. Parasites and Vectors, 2014, 7, 557.	1.0	18
75	Life Cycle, Host Utilization, and Ecological Fitting for Invasive Lancet Liver Fluke, Dicrocoelium dendriticum, Emerging in Southern Alberta, Canada. Journal of Parasitology, 2017, 103, 207-212.	0.3	18
76	High levels of third-stage larvae (L3) overwinter survival for multiple cattle gastrointestinal nematode species on western Canadian pastures as revealed by ITS2 rDNA metabarcoding. Parasites and Vectors, 2020, 13, 458.	1.0	17
77	Piloting a surveillance system to monitor the global patterns of drug efficacy and the emergence of anthelmintic resistance in soil-transmitted helminth control programs: a Starworms study protocol. Gates Open Research, 2020, 4, 28.	2.0	17
78	Metabarcoding in two isolated populations of wild roe deer (Capreolus capreolus) reveals variation in gastrointestinal nematode community composition between regions and among age classes. Parasites and Vectors, 2021, 14, 594.	1.0	17
79	Haemonchosis in large ruminants in the UK. Veterinary Record, 2010, 166, 373-374.	0.2	16
80	Microsatellite genotyping supports the hypothesis that Teladorsagia davtiani and Teladorsagia trifurcata are morphotypes of Teladorsagia circumcincta. Molecular and Biochemical Parasitology, 2008, 159, 59-63.	0.5	15
81	Quantitative genetics of gastrointestinal strongyle burden and associated body condition in feral horses. International Journal for Parasitology: Parasites and Wildlife, 2019, 9, 104-111.	0.6	15
82	Characterization of the Î²-tubulin gene family in Ascaris lumbricoides and Ascaris suum and its implication for the molecular detection of benzimidazole resistance. PLoS Neglected Tropical Diseases, 2021, 15, e0009777.	1.3	13
83	Using population genetics to examine relationships of Dirofilaria immitis based on both macrocyclic lactone-resistance status and geography. Veterinary Parasitology, 2020, 283, 109125.	0.7	13
84	Comparison of ITS-2 rDNA nemabiome sequencing with morphological identification to quantify gastrointestinal nematode community species composition in small ruminant feces. Veterinary Parasitology, 2020, 282, 109104.	0.7	12
85	Use of diagnostic markers to monitor fasciolosis and gastrointestinal nematodes on an organic dairy farm. Veterinary Record, 2011, 169, 524-524.	0.2	11
86	A method for single pair mating in an obligate parasitic nematode. International Journal for Parasitology, 2018, 48, 159-165.	1.3	11
87	Treatment efficacy and re-infection rates of soil-transmitted helminths following mebendazole treatment in schoolchildren, Northwest Ethiopia. Tropical Medicine and Health, 2020, 48, 90.	1.0	11
88	Clonemate cotransmission supports a role for kin selection in a puppeteer parasite. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5970-5976.	3.3	11
89	MIPhy: identify and quantify rapidly evolving members of large gene families. PeerJ, 2018, 6, e4873.	0.9	11
90	Population genetic analysis informs the invasion history of the emerging trematode Dicrocoelium dendriticum into Canada. International Journal for Parasitology, 2017, 47, 845-856.	1.3	10

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91	The confounding effects of high genetic diversity on the determination and interpretation of differential gene expression analysis in the parasitic nematode Haemonchus contortus. International Journal for Parasitology, 2019, 49, 847-858.	1.3	10
92	Mating barriers between genetically divergent strains of the parasitic nematode Haemonchus contortus suggest incipient speciation. International Journal for Parasitology, 2019, 49, 531-540.	1.3	10
93	Contrasting patterns of isotype-1 Î²-tubulin allelic diversity in Haemonchus contortus and Haemonchus placei in the southern USA are consistent with a model of localised emergence of benzimidazole resistance. Veterinary Parasitology, 2020, 286, 109240.	0.7	10
94	Evaluation of changes in drug susceptibility and population genetic structure in Haemonchus contortus following worm replacement as a means to reverse the impact of multiple-anthelmintic resistance on a sheep farm. International Journal for Parasitology: Drugs and Drug Resistance, 2021, 15, 134-143.	1.4	10
95	Effects of age and immune suppression of sheep on fecundity, hatching and larval feeding of different strains of Haemonchus contortus. Veterinary Journal, 2011, 189, 296-301.	0.6	9
96	Morphological and molecular identification of Explanatum explanatum in domestic water buffalo in Pakistan. Veterinary Parasitology: Regional Studies and Reports, 2017, 8, 54-59.	0.3	9
97	Seasonal epidemiology of gastrointestinal nematodes of cattle in the northern continental climate zone of western Canada as revealed by internal transcribed spacer-2 ribosomal DNA nemabiome barcoding. Parasites and Vectors, 2021, 14, 604.	1.0	9
98	Isolation and characterization of microsatellite loci in the tapeworm Ligula intestinalis (Cestoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	1.7	8
99	Deep amplicon sequencing highlights low intra-host genetic variability of Echinococcus multilocularis and high prevalence of the European-type haplotypes in coyotes and red foxes in Alberta, Canada. PLoS Neglected Tropical Diseases, 2021, 15, e0009428.	1.3	8
100	Interactions of Caenorhabditis elegans Î²-tubulins with the microtubule inhibitor and anthelmintic drug albendazole. Genetics, 2022, 221, .	1.2	8
101	The biogeography of the caribou lungworm, Varestrongylus eleguneniensis (Nematoda:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3 and Wildlife, 2020, 11, 93-102.	0.6	7
102	Survey of gastrointestinal nematode parasites in Saskatchewan beef herds. Canadian Veterinary Journal, 2016, 57, 160-3.	0.0	7
103	Figmop: a profile HMM to identify genes and bypass troublesome gene models in draft genomes. Bioinformatics, 2014, 30, 3266-3267.	1.8	6
104	Characterization of nine microsatellite loci for Dicrocoelium dendriticum, an emerging liver fluke of ungulates in North America, and their use to detect clonemates and random mating. Molecular and Biochemical Parasitology, 2016, 207, 19-22.	0.5	6
105	A panel of microsatellite markers to discriminate and study interactions between Haemonchus contortus and Haemonchus placei. Veterinary Parasitology, 2017, 244, 71-75.	0.7	6
106	A Trypsin-Sensitive Proteoglycan from the Tapeworm Hymenolepis diminuta Inhibits Murine Neutrophil Chemotaxis in vitro by Suppressing p38 MAP Kinase Activation. Journal of Innate Immunity, 2019, 11, 136-149.	1.8	6
107	Conservation of the Caenorhabditis elegans cuticle collagen gene col-12 in Caenorhabditis briggsae. Gene, 1997, 193, 181-186.	1.0	5
108	Regional heterogeneity and unexpectedly high abundance of Cooperia punctata in beef cattle at a northern latitude revealed by ITS-2 rDNA nemabiome metabarcoding. Parasites and Vectors, 2022, 15, 17.	1.0	5

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109	Correlation of salivary antibody to carbohydrate larval antigen (CarLA) with health and gastrointestinal nematode parasitism in sheep under Ontario grazing conditions. Veterinary Parasitology, 2020, 283, 109183.	0.7	4
110	Prevalence, Infection Intensity and Associated Factors of Soil-Transmitted Helminthiasis Among School-Aged Children from Selected Districts in Northwest Ethiopia. Research and Reports in Tropical Medicine, 2021, Volume 12, 15-23.	2.8	4
111	Epidemiology of gastrointestinal nematode infections in grazing yearling beef cattle in Saskatchewan. Canadian Veterinary Journal, 2017, 58, 1044-1050.	0.0	4
112	Rethinking Graduate Education in Parasitology: A Case Study. Trends in Parasitology, 2019, 35, 665-668.	1.5	2
113	Correlation of subclinical gastrointestinal nematode parasitism with growth and reproductive performance in ewe lambs in Ontario. Preventive Veterinary Medicine, 2020, 185, 105175.	0.7	1
114	Molecular characterization of Sarcocystis spp. as a cause of protozoal encephalitis in a free-ranging black bear. Journal of Veterinary Diagnostic Investigation, 2021, , 104063872110383.	0.5	1
115	Survey of gastrointestinal nematodes in breeding-age heifers on 6 Saskatchewan dairy farms. Canadian Veterinary Journal, 2019, 60, 1342-1348.	0.0	1