

Erik C Andersen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

99
papers

3,023
citations

28
h-index

54
g-index

144
ext. papers

4,535
ext. citations

8.3
avg, IF

5.46
L-index

#	Paper	IF	Citations
99	Megapixel camera arrays enable high-resolution animal tracking in multiwell plates.. <i>Communications Biology</i> , 2022 , 5, 253	6.7	2
98	Changes in body shape implicate cuticle stretch in <i>C. elegans</i> growth control.. <i>Cells and Development</i> , 2022 , 203780		0
97	The and beta-tubulin genes cannot substitute for loss of the beta-tubulin gene. <i>MicroPublication Biology</i> , 2021 , 2021,	0.8	1
96	easyFulcrum: An R package to process and analyze ecological sampling data generated using the Fulcrum mobile application. <i>PLoS ONE</i> , 2021 , 16, e0254293	3.7	0
95	Newly identified parasitic nematode beta-tubulin alleles confer resistance to benzimidazoles. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021 , 17, 168-175	4	2
94	Two novel loci underlie natural differences in <i>Caenorhabditis elegans</i> abamectin responses. <i>PLoS Pathogens</i> , 2021 , 17, e1009297	7.6	2
93	Balancing selection maintains hyper-divergent haplotypes in <i>Caenorhabditis elegans</i> . <i>Nature Ecology and Evolution</i> , 2021 , 5, 794-807	12.3	12
92	Culture and Assay of Large-Scale Mixed-Stage <i>Caenorhabditis elegans</i> Populations. <i>Journal of Visualized Experiments</i> , 2021 ,	1.6	2
91	Long-Term Metabolomics Reference Material. <i>Analytical Chemistry</i> , 2021 , 93, 9193-9199	7.8	2
90	Complementary Approaches with Free-living and Parasitic Nematodes to Understanding Anthelmintic Resistance. <i>Trends in Parasitology</i> , 2021 , 37, 240-250	6.4	7
89	Selfing is the safest sex for. <i>ELife</i> , 2021 , 10,	8.9	5
88	Xenobiotic metabolism and transport in. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2021 , 24, 51-94	8.6	16
87	easyXpress: An R package to analyze and visualize high-throughput <i>C. elegans</i> microscopy data generated using CellProfiler. <i>PLoS ONE</i> , 2021 , 16, e0252000	3.7	0
86	Natural variation in <i>Caenorhabditis elegans</i> responses to the anthelmintic emodepside. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2021 , 16, 1-8	4	2
85	Mutability of mononucleotide repeats, not oxidative stress, explains the discrepancy between laboratory-accumulated mutations and the natural allele-frequency spectrum in. <i>Genome Research</i> , 2021 , 31, 1602-1613	9.7	0
84	From QTL to gene: <i>C. elegans</i> facilitates discoveries of the genetic mechanisms underlying natural variation. <i>Trends in Genetics</i> , 2021 , 37, 933-947	8.5	3
83	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically. <i>PLoS ONE</i> , 2020 , 15, e0235000	3.7	1

82	A spontaneous complex structural variant in rcan-1 increases exploratory behavior and laboratory fitness of <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2020 , 16, e1008606	6	3
81	Effects of telomerase overexpression in the model organism <i>Caenorhabditis elegans</i> . <i>Gene</i> , 2020 , 732, 144367	3.8	
80	Natural variation in the sequestosome-related gene, sqst-5, underlies zinc homeostasis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2020 , 16, e1008986	6	6
79	The cadmium-responsive gene, , does not influence responses to exogenous zinc. <i>MicroPublication Biology</i> , 2020 , 2020,	0.8	1
78	Quantitative benzimidazole resistance and fitness effects of parasitic nematode beta-tubulin alleles. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020 , 14, 28-36	4	16
77	The Gene Underlies Variation in Chemotherapeutic Responses. <i>G3: Genes, Genomes, Genetics</i> , 2020 , 10, 2353-2364	3.2	7
76	<i>Caenorhabditis elegans</i> in anthelmintic research - Old model, new perspectives. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , 2020 , 14, 237-248	4	9
75	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model. <i>PLoS Genetics</i> , 2020 , 16, e1008984	6	2
74	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model 2020 , 16, e1008984		
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68	A spontaneous complex structural variant in rcan-1 increases exploratory behavior and laboratory fitness of <i>Caenorhabditis elegans</i> 2020 , 16, e1008606		
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62	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically 2020 , 15, e0235000		
61	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically 2020 , 15, e0235000		
60	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically 2020 , 15, e0235000		
59	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically 2020 , 15, e0235000		
58	Selection and gene flow shape niche-associated variation in pheromone response. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1455-1463	12.3	17
57	A Novel Gene Underlies Bleomycin-Response Variation in. <i>Genetics</i> , 2019 , 212, 1453-1468	4	15
56	Long-read sequencing reveals intra-species tolerance of substantial structural variations and new subtelomere formation in. <i>Genome Research</i> , 2019 , 29, 1023-1035	9.7	23
55	Natural Variation and Genetic Determinants of Sperm Size. <i>Genetics</i> , 2019 , 213, 615-632	4	10
54	Natural variation in arsenic toxicity is explained by differences in branched chain amino acid metabolism. <i>ELife</i> , 2019 , 8,	8.9	29
53	Deep sampling of Hawaiian reveals high genetic diversity and admixture with global populations. <i>ELife</i> , 2019 , 8,	8.9	28
52	The <i>Caenorhabditis</i> Genetics Center (CGC) and the <i>Caenorhabditis elegans</i> Natural Diversity Resource 2019 , 69-94		
51	Population Selection and Sequencing of Wild Isolates Identifies a Region on Chromosome III Affecting Starvation Resistance. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 3477-3488	3.2	7
50	Tightly linked antagonistic-effect loci underlie polygenic phenotypic variation in. <i>Evolution Letters</i> , 2019 , 3, 462-473	5.3	11
49	An escape-room inspired game for genetics review. <i>Journal of Biological Education</i> , 2019 , 1-12	0.9	9
48	Discovery of genomic intervals that underlie nematode responses to benzimidazoles. <i>PLoS Neglected Tropical Diseases</i> , 2018 , 12, e0006368	4.8	28
47	Extreme allelic heterogeneity at a <i>Caenorhabditis elegans</i> beta-tubulin locus explains natural resistance to benzimidazoles. <i>PLoS Pathogens</i> , 2018 , 14, e1007226	7.6	36

46	Shared Genomic Regions Underlie Natural Variation in Diverse Toxin Responses. <i>Genetics</i> , 2018 , 210, 1509-1525	4	21
45	Bacterial Metabolism Affects the <i>C. elegans</i> Response to Cancer Chemotherapeutics. <i>Cell</i> , 2017 , 169, 431-441.e8	56.2	120
44	VCF-kit: assorted utilities for the variant call format. <i>Bioinformatics</i> , 2017 , 33, 1581-1582	7.2	31
43	Natural variation in a single amino acid substitution underlies physiological responses to topoisomerase II poisons. <i>PLoS Genetics</i> , 2017 , 13, e1006891	6	36
42	Natural diversity facilitates the discovery of conserved chemotherapeutic response mechanisms. <i>Current Opinion in Genetics and Development</i> , 2017 , 47, 41-47	4.9	8
41	The genetic basis of natural variation in a phoretic behavior. <i>Nature Communications</i> , 2017 , 8, 273	17.4	31
40	Correlations of Genotype with Climate Parameters Suggest <i>Caenorhabditis elegans</i> Niche Adaptations. <i>G3: Genes, Genomes, Genetics</i> , 2017 , 7, 289-298	3.2	20
39	CeNDR, the <i>Caenorhabditis elegans</i> natural diversity resource. <i>Nucleic Acids Research</i> , 2017 , 45, D650-D657	57.1	132
38	Mutation Is a Sufficient and Robust Predictor of Genetic Variation for Mitotic Spindle Traits in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2016 , 203, 1859-70	4	11
37	Selection on a Subunit of the NURF Chromatin Remodeler Modifies Life History Traits in a Domesticated Strain of <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2016 , 12, e1006219	6	31
36	Copper Oxide Nanoparticles Impact Several Toxicological Endpoints and Cause Neurodegeneration in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2016 , 11, e0167613	3.7	39
35	Prospects and challenges of CRISPR/Cas genome editing for the study and control of neglected vector-borne nematode diseases. <i>FEBS Journal</i> , 2016 , 283, 3204-21	5.7	32
34	The Genetic Basis of Natural Variation in <i>Caenorhabditis elegans</i> Telomere Length. <i>Genetics</i> , 2016 , 204, 371-83	4	64
33	A wild <i>C. elegans</i> strain has enhanced epithelial immunity to a natural microsporidian parasite. <i>PLoS Pathogens</i> , 2015 , 11, e1004583	7.6	54
32	Scaling, selection, and evolutionary dynamics of the mitotic spindle. <i>Current Biology</i> , 2015 , 25, 732-740	6.3	49
31	The laboratory domestication of <i>Caenorhabditis elegans</i> . <i>Trends in Genetics</i> , 2015 , 31, 224-31	8.5	113
30	Remarkably Divergent Regions Punctuate the Genome Assembly of the <i>Caenorhabditis elegans</i> Hawaiian Strain CB4856. <i>Genetics</i> , 2015 , 200, 975-89	4	79
29	The red death meets the abdominal bristle: polygenic mutation for susceptibility to a bacterial pathogen in <i>Caenorhabditis elegans</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2015 , 69, 508-19	3.8	4

28	A Powerful New Quantitative Genetics Platform, Combining <i>Caenorhabditis elegans</i> High-Throughput Fitness Assays with a Large Collection of Recombinant Strains. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 911-20	3.2	63
27	A variant in the neuropeptide receptor <i>npr-1</i> is a major determinant of <i>Caenorhabditis elegans</i> growth and physiology. <i>PLoS Genetics</i> , 2014 , 10, e1004156	6	96
26	COPASutils: an R package for reading, processing, and visualizing data from COPAS large-particle flow cytometers. <i>PLoS ONE</i> , 2014 , 9, e111090	3.7	37
25	Species richness, distribution and genetic diversity of <i>Caenorhabditis</i> nematodes in a remote tropical rainforest. <i>BMC Evolutionary Biology</i> , 2013 , 13, 10	3	51
24	Chromosome-scale selective sweeps shape <i>Caenorhabditis elegans</i> genomic diversity. <i>Nature Genetics</i> , 2012 , 44, 285-90	36.3	251
23	Natural variation in a chloride channel subunit confers avermectin resistance in <i>C. elegans</i> . <i>Science</i> , 2012 , 335, 574-8	33.3	118
22	Variability in gene expression underlies incomplete penetrance. <i>Nature</i> , 2010 , 463, 913-8	50.4	489
21	Differential localization and independent acquisition of the H3K9me2 and H3K9me3 chromatin modifications in the <i>Caenorhabditis elegans</i> adult germ line. <i>PLoS Genetics</i> , 2010 , 6, e1000830	6	83
20	A polymorphism in <i>npr-1</i> is a behavioral determinant of pathogen susceptibility in <i>C. elegans</i> . <i>Science</i> , 2009 , 323, 382-4	33.3	175
19	Multiple levels of redundant processes inhibit <i>Caenorhabditis elegans</i> vulval cell fates. <i>Genetics</i> , 2008 , 179, 2001-12	4	15
18	DPL-1 DP, LIN-35 Rb and EFL-1 E2F act with the MCD-1 zinc-finger protein to promote programmed cell death in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2007 , 175, 1719-33	4	29
17	Two <i>C. elegans</i> histone methyltransferases repress <i>lin-3</i> EGF transcription to inhibit vulval development. <i>Development (Cambridge)</i> , 2007 , 134, 2991-9	6.6	115
16	<i>C. elegans</i> ISWI and NURF301 antagonize an Rb-like pathway in the determination of multiple cell fates. <i>Development (Cambridge)</i> , 2006 , 133, 2695-704	6.6	52
15	Patterns of gene expression during <i>Drosophila</i> mesoderm development. <i>Science</i> , 2001 , 293, 1629-33	33.3	233
14	Common genomic regions underlie natural variation in diverse toxin responses		2
13	Natural variation in <i>C. elegans</i> arsenic toxicity is explained by differences in branched chain amino acid metabolism		1
12	Extreme allelic heterogeneity at a <i>Caenorhabditis elegans</i> beta-tubulin locus explains natural resistance to benzimidazoles		1
11	Evolution of sperm competition: Natural variation and genetic determinants of <i>Caenorhabditis elegans</i> sperm size		1

10	A beneficial genomic rearrangement creates multiple versions of calcipressin in <i>C. elegans</i>	1
9	Deep sampling of Hawaiian <i>Caenorhabditis elegans</i> reveals high genetic diversity and admixture with global populations	1
8	Discovery of unique loci that underlie nematode responses to benzimidazoles	3
7	Natural variation in a single amino acid underlies cellular responses to topoisomerase II poisons	2
6	Balancing selection maintains hyper-divergent haplotypes in <i>C. elegans</i>	5
5	Tightly-linked antagonistic-effect loci underlie polygenic demographic variation in <i>C. elegans</i>	2
4	A nematode-specific gene underlies bleomycin-response variation in <i>Caenorhabditis elegans</i>	1
3	Selection and gene flow shape niche-associated copy-number variation of pheromone receptor genes	3
2	Long-Term Metabolomics Reference Material	1
1	Highly scaled measurements of <i>C. elegans</i> development suggest that physical constraints guide growth trajectories and animal shape	1