

# Erik C Andersen

## List of Publications by Citations

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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	Variability in gene expression underlies incomplete penetrance. <i>Nature</i> , <b>2010</b> , 463, 913-8	50.4	489
98	Chromosome-scale selective sweeps shape <i>Caenorhabditis elegans</i> genomic diversity. <i>Nature Genetics</i> , <b>2012</b> , 44, 285-90	36.3	251
97	Patterns of gene expression during <i>Drosophila</i> mesoderm development. <i>Science</i> , <b>2001</b> , 293, 1629-33	33.3	233
96	A polymorphism in <i>npr-1</i> is a behavioral determinant of pathogen susceptibility in <i>C. elegans</i> . <i>Science</i> , <b>2009</b> , 323, 382-4	33.3	175
95	CeNDR, the <i>Caenorhabditis elegans</i> natural diversity resource. <i>Nucleic Acids Research</i> , <b>2017</b> , 45, D650-D657	17.1	132
94	Bacterial Metabolism Affects the <i>C. elegans</i> Response to Cancer Chemotherapeutics. <i>Cell</i> , <b>2017</b> , 169, 431-441.e8	56.2	120
93	Natural variation in a chloride channel subunit confers avermectin resistance in <i>C. elegans</i> . <i>Science</i> , <b>2012</b> , 335, 574-8	33.3	118
92	Two <i>C. elegans</i> histone methyltransferases repress <i>lin-3</i> EGF transcription to inhibit vulval development. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 2991-9	6.6	115
91	The laboratory domestication of <i>Caenorhabditis elegans</i> . <i>Trends in Genetics</i> , <b>2015</b> , 31, 224-31	8.5	113
90	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> , <b>2014</b> , 10, e1004156	6	96
89	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> , <b>2010</b> , 6, e1000830	6	83
88	Remarkably Divergent Regions Punctuate the Genome Assembly of the <i>Caenorhabditis elegans</i> Hawaiian Strain CB4856. <i>Genetics</i> , <b>2015</b> , 200, 975-89	4	79
87	The Genetic Basis of Natural Variation in <i>Caenorhabditis elegans</i> Telomere Length. <i>Genetics</i> , <b>2016</b> , 204, 371-83	4	64
86	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> , <b>2015</b> , 5, 911-20	3.2	63
85	A wild <i>C. elegans</i> strain has enhanced epithelial immunity to a natural microsporidian parasite. <i>PLoS Pathogens</i> , <b>2015</b> , 11, e1004583	7.6	54
84	<i>C. elegans</i> ISWI and NURF301 antagonize an Rb-like pathway in the determination of multiple cell fates. <i>Development (Cambridge)</i> , <b>2006</b> , 133, 2695-704	6.6	52
83	Species richness, distribution and genetic diversity of <i>Caenorhabditis</i> nematodes in a remote tropical rainforest. <i>BMC Evolutionary Biology</i> , <b>2013</b> , 13, 10	3	51

82	Scaling, selection, and evolutionary dynamics of the mitotic spindle. <i>Current Biology</i> , <b>2015</b> , 25, 732-740	6.3	49
81	Copper Oxide Nanoparticles Impact Several Toxicological Endpoints and Cause Neurodegeneration in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2016</b> , 11, e0167613	3.7	39
80	COPASutils: an R package for reading, processing, and visualizing data from COPAS large-particle flow cytometers. <i>PLoS ONE</i> , <b>2014</b> , 9, e111090	3.7	37
79	Natural variation in a single amino acid substitution underlies physiological responses to topoisomerase II poisons. <i>PLoS Genetics</i> , <b>2017</b> , 13, e1006891	6	36
78	Extreme allelic heterogeneity at a <i>Caenorhabditis elegans</i> beta-tubulin locus explains natural resistance to benzimidazoles. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007226	7.6	36
77	Prospects and challenges of CRISPR/Cas genome editing for the study and control of neglected vector-borne nematode diseases. <i>FEBS Journal</i> , <b>2016</b> , 283, 3204-21	5.7	32
76	VCF-kit: assorted utilities for the variant call format. <i>Bioinformatics</i> , <b>2017</b> , 33, 1581-1582	7.2	31
75	The genetic basis of natural variation in a phoretic behavior. <i>Nature Communications</i> , <b>2017</b> , 8, 273	17.4	31
74	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> , <b>2016</b> , 12, e1006219	6	31
73	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> , <b>2007</b> , 175, 1719-33	4	29
72	Natural variation in arsenic toxicity is explained by differences in branched chain amino acid metabolism. <i>ELife</i> , <b>2019</b> , 8,	8.9	29
71	Discovery of genomic intervals that underlie nematode responses to benzimidazoles. <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006368	4.8	28
70	Deep sampling of Hawaiian reveals high genetic diversity and admixture with global populations. <i>ELife</i> , <b>2019</b> , 8,	8.9	28
69	Long-read sequencing reveals intra-species tolerance of substantial structural variations and new subtelomere formation in. <i>Genome Research</i> , <b>2019</b> , 29, 1023-1035	9.7	23
68	Shared Genomic Regions Underlie Natural Variation in Diverse Toxin Responses. <i>Genetics</i> , <b>2018</b> , 210, 1509-1525	4	21
67	Correlations of Genotype with Climate Parameters Suggest <i>Caenorhabditis elegans</i> Niche Adaptations. <i>G3: Genes, Genomes, Genetics</i> , <b>2017</b> , 7, 289-298	3.2	20
66	Selection and gene flow shape niche-associated variation in pheromone response. <i>Nature Ecology and Evolution</i> , <b>2019</b> , 3, 1455-1463	12.3	17
65	Quantitative benzimidazole resistance and fitness effects of parasitic nematode beta-tubulin alleles. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2020</b> , 14, 28-36	4	16

64	Xenobiotic metabolism and transport in. <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , <b>2021</b> , 24, 51-94	8.6	16
63	A Novel Gene Underlies Bleomycin-Response Variation in. <i>Genetics</i> , <b>2019</b> , 212, 1453-1468	4	15
62	Multiple levels of redundant processes inhibit <i>Caenorhabditis elegans</i> vulval cell fates. <i>Genetics</i> , <b>2008</b> , 179, 2001-12	4	15
61	Balancing selection maintains hyper-divergent haplotypes in <i>Caenorhabditis elegans</i> . <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 794-807	12.3	12
60	Mutation Is a Sufficient and Robust Predictor of Genetic Variation for Mitotic Spindle Traits in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , <b>2016</b> , 203, 1859-70	4	11
59	Tightly linked antagonistic-effect loci underlie polygenic phenotypic variation in. <i>Evolution Letters</i> , <b>2019</b> , 3, 462-473	5.3	11
58	Natural Variation and Genetic Determinants of Sperm Size. <i>Genetics</i> , <b>2019</b> , 213, 615-632	4	10
57	<i>Caenorhabditis elegans</i> in anthelmintic research - Old model, new perspectives. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2020</b> , 14, 237-248	4	9
56	An escape-room inspired game for genetics review. <i>Journal of Biological Education</i> , <b>2019</b> , 1-12	0.9	9
55	Natural diversity facilitates the discovery of conserved chemotherapeutic response mechanisms. <i>Current Opinion in Genetics and Development</i> , <b>2017</b> , 47, 41-47	4.9	8
54	The Gene Underlies Variation in Chemotherapeutic Responses. <i>G3: Genes, Genomes, Genetics</i> , <b>2020</b> , 10, 2353-2364	3.2	7
53	Population Selection and Sequencing of Wild Isolates Identifies a Region on Chromosome III Affecting Starvation Resistance. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 3477-3488	3.2	7
52	Complementary Approaches with Free-living and Parasitic Nematodes to Understanding Anthelmintic Resistance. <i>Trends in Parasitology</i> , <b>2021</b> , 37, 240-250	6.4	7
51	Natural variation in the sequestosome-related gene, <i>sqst-5</i> , underlies zinc homeostasis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008986	6	6
50	Balancing selection maintains hyper-divergent haplotypes in <i>C. elegans</i>		5
49	Selfing is the safest sex for. <i>ELife</i> , <b>2021</b> , 10,	8.9	5
48	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> , <b>2015</b> , 69, 508-19	3.8	4
47	A spontaneous complex structural variant in <i>rca-1</i> increases exploratory behavior and laboratory fitness of <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008606	6	3

46	Discovery of unique loci that underlie nematode responses to benzimidazoles		3
45	Selection and gene flow shape niche-associated copy-number variation of pheromone receptor genes		3
44	From QTL to gene: <i>C. elegans</i> facilitates discoveries of the genetic mechanisms underlying natural variation. <i>Trends in Genetics</i> , <b>2021</b> , 37, 933-947	8.5	3
43	Newly identified parasitic nematode beta-tubulin alleles confer resistance to benzimidazoles. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2021</b> , 17, 168-175	4	2
42	Common genomic regions underlie natural variation in diverse toxin responses		2
41	Natural variation in a single amino acid underlies cellular responses to topoisomerase II poisons		2
40	Tightly-linked antagonistic-effect loci underlie polygenic demographic variation in <i>C. elegans</i>		2
39	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model. <i>PLoS Genetics</i> , <b>2020</b> , 16, e1008984	6	2
38	Two novel loci underlie natural differences in <i>Caenorhabditis elegans</i> abamectin responses. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009297	7.6	2
37	Culture and Assay of Large-Scale Mixed-Stage <i>Caenorhabditis elegans</i> Populations. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	2
36	Long-Term Metabolomics Reference Material. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9193-9199	7.8	2
35	Natural variation in <i>Caenorhabditis elegans</i> responses to the anthelmintic emodepside. <i>International Journal for Parasitology: Drugs and Drug Resistance</i> , <b>2021</b> , 16, 1-8	4	2
34	Megapixel camera arrays enable high-resolution animal tracking in multiwell plates.. <i>Communications Biology</i> , <b>2022</b> , 5, 253	6.7	2
33	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically. <i>PLoS ONE</i> , <b>2020</b> , 15, e0235000	3.7	1
32	The cadmium-responsive gene, , does not influence responses to exogenous zinc. <i>MicroPublication Biology</i> , <b>2020</b> , 2020,	0.8	1
31	The and beta-tubulin genes cannot substitute for loss of the beta-tubulin gene. <i>MicroPublication Biology</i> , <b>2021</b> , 2021,	0.8	1
30	Natural variation in <i>C. elegans</i> arsenic toxicity is explained by differences in branched chain amino acid metabolism		1
29	Extreme allelic heterogeneity at a <i>Caenorhabditis elegans</i> beta-tubulin locus explains natural resistance to benzimidazoles		1

28	Evolution of sperm competition: Natural variation and genetic determinants of <i>Caenorhabditis elegans</i> sperm size		1
27	A beneficial genomic rearrangement creates multiple versions of calcipressin in <i>C. elegans</i>		1
26	Deep sampling of Hawaiian <i>Caenorhabditis elegans</i> reveals high genetic diversity and admixture with global populations		1
25	A nematode-specific gene underlies bleomycin-response variation in <i>Caenorhabditis elegans</i>		1
24	Long-Term Metabolomics Reference Material		1
23	Highly scaled measurements of <i>C. elegans</i> development suggest that physical constraints guide growth trajectories and animal shape		1
22	easyFulcrum: An R package to process and analyze ecological sampling data generated using the Fulcrum mobile application. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254293	3.7	0
21	easyXpress: An R package to analyze and visualize high-throughput <i>C. elegans</i> microscopy data generated using CellProfiler. <i>PLoS ONE</i> , <b>2021</b> , 16, e0252000	3.7	0
20	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> , <b>2021</b> , 31, 1602-1613	9.7	0
19	Changes in body shape implicate cuticle stretch in <i>C. elegans</i> growth control.. <i>Cells and Development</i> , <b>2022</b> , 203780		0
18	Effects of telomerase overexpression in the model organism <i>Caenorhabditis elegans</i> . <i>Gene</i> , <b>2020</b> , 732, 144367	3.8	
17	The <i>Caenorhabditis</i> Genetics Center (CGC) and the <i>Caenorhabditis elegans</i> Natural Diversity Resource <b>2019</b> , 69-94		
16	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model <b>2020</b> , 16, e1008984		
15	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model <b>2020</b> , 16, e1008984		
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- 10 A spontaneous complex structural variant in *rca-1* increases exploratory behavior and laboratory fitness of *Caenorhabditis elegans* **2020**, 16, e1008606
- 9 A spontaneous complex structural variant in *rca-1* increases exploratory behavior and laboratory fitness of *Caenorhabditis elegans* **2020**, 16, e1008606
- 8 A spontaneous complex structural variant in *rca-1* increases exploratory behavior and laboratory fitness of *Caenorhabditis elegans* **2020**, 16, e1008606
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- 6 A spontaneous complex structural variant in *rca-1* increases exploratory behavior and laboratory fitness of *Caenorhabditis elegans* **2020**, 16, e1008606
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- 4 The nematode *Caenorhabditis elegans* and the terrestrial isopod *Porcellio scaber* likely interact opportunistically **2020**, 15, e0235000
- 3 The nematode *Caenorhabditis elegans* and the terrestrial isopod *Porcellio scaber* likely interact opportunistically **2020**, 15, e0235000
- 2 The nematode *Caenorhabditis elegans* and the terrestrial isopod *Porcellio scaber* likely interact opportunistically **2020**, 15, e0235000
- 1 The nematode *Caenorhabditis elegans* and the terrestrial isopod *Porcellio scaber* likely interact opportunistically **2020**, 15, e0235000