

# Erik C Andersen

## List of Publications by Year in descending order

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95  
papers

5,301  
citations

136885

32  
h-index

118793

62  
g-index

144  
all docs

144  
docs citations

144  
times ranked

4544  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability in gene expression underlies incomplete penetrance. <i>Nature</i> , 2010, 463, 913-918.	13.7	607
2	Chromosome-scale selective sweeps shape <i>Caenorhabditis elegans</i> genomic diversity. <i>Nature Genetics</i> , 2012, 44, 285-290.	9.4	366
3	CeNDR, the <i>Caenorhabditis elegans</i> natural diversity resource. <i>Nucleic Acids Research</i> , 2017, 45, D650-D657.	6.5	287
4	Patterns of Gene Expression During <i>Drosophila</i> Mesoderm Development. <i>Science</i> , 2001, 293, 1629-1633.	6.0	254
5	A Polymorphism in <i>npr-1</i> Is a Behavioral Determinant of Pathogen Susceptibility in <i>C. elegans</i> . <i>Science</i> , 2009, 323, 382-384.	6.0	221
6	Bacterial Metabolism Affects the <i>C. elegans</i> Response to Cancer Chemotherapeutics. <i>Cell</i> , 2017, 169, 431-441.e8.	13.5	215
7	The laboratory domestication of <i>Caenorhabditis elegans</i> . <i>Trends in Genetics</i> , 2015, 31, 224-231.	2.9	183
8	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.	1.5	174
9	Natural Variation in a Chloride Channel Subunit Confers Avermectin Resistance in <i>C. elegans</i> . <i>Science</i> , 2012, 335, 574-578.	6.0	160
10	Two <i>C. elegans</i> histone methyltransferases repress <i>lin-3</i> EGF transcription to inhibit vulval development. <i>Development (Cambridge)</i> , 2007, 134, 2991-2999.	1.2	142
11	Remarkably Divergent Regions Punctuate the Genome Assembly of the <i>Caenorhabditis elegans</i> Hawaiian Strain CB4856. <i>Genetics</i> , 2015, 200, 975-989.	1.2	136
12	The Genetic Basis of Natural Variation in <i>Caenorhabditis elegans</i> Telomere Length. <i>Genetics</i> , 2016, 204, 371-383.	1.2	117
13	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, 911-920.	0.8	106
14	VCF-kit: assorted utilities for the variant call format. <i>Bioinformatics</i> , 2017, 33, 1581-1582.	1.8	104
15	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.	1.5	101
16	Extreme allelic heterogeneity at a <i>Caenorhabditis elegans</i> beta-tubulin locus explains natural resistance to benzimidazoles. <i>PLoS Pathogens</i> , 2018, 14, e1007226.	2.1	97
17	Balancing selection maintains hyper-divergent haplotypes in <i>Caenorhabditis elegans</i> . <i>Nature Ecology and Evolution</i> , 2021, 5, 794-807.	3.4	89
18	Deep sampling of Hawaiian <i>Caenorhabditis elegans</i> reveals high genetic diversity and admixture with global populations. <i>ELife</i> , 2019, 8, .	2.8	88

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19	A Wild <i>C. Elegans</i> Strain Has Enhanced Epithelial Immunity to a Natural Microsporidian Parasite. <i>PLoS Pathogens</i> , 2015, 11, e1004583.	2.1	80
20	Natural variation in a single amino acid substitution underlies physiological responses to topoisomerase II poisons. <i>PLoS Genetics</i> , 2017, 13, e1006891.	1.5	75
21	Scaling, Selection, and Evolutionary Dynamics of the Mitotic Spindle. <i>Current Biology</i> , 2015, 25, 732-740.	1.8	73
22	Species richness, distribution and genetic diversity of <i>Caenorhabditis</i> nematodes in a remote tropical rainforest. <i>BMC Evolutionary Biology</i> , 2013, 13, 10.	3.2	71
23	Long-read sequencing reveals intra-species tolerance of substantial structural variations and new subtelomere formation in <i>C. elegans</i> . <i>Genome Research</i> , 2019, 29, 1023-1035.	2.4	67
24	Natural variation in <i>C. elegans</i> arsenic toxicity is explained by differences in branched chain amino acid metabolism. <i>ELife</i> , 2019, 8, .	2.8	66
25	Discovery of genomic intervals that underlie nematode responses to benzimidazoles. <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006368.	1.3	63
26	<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, 2695-2704.	1.2	61
27	COPASutils: An R Package for Reading, Processing, and Visualizing Data from COPAS Large-Particle Flow Cytometers. <i>PLoS ONE</i> , 2014, 9, e111090.	1.1	54
28	Xenobiotic metabolism and transport in <i>Caenorhabditis elegans</i> . <i>Journal of Toxicology and Environmental Health - Part B: Critical Reviews</i> , 2021, 24, 51-94.	2.9	51
29	Copper Oxide Nanoparticles Impact Several Toxicological Endpoints and Cause Neurodegeneration in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2016, 11, e0167613.	1.1	50
30	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.	1.5	50
31	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, 3204-3221.	2.2	48
32	The genetic basis of natural variation in a phoretic behavior. <i>Nature Communications</i> , 2017, 8, 273.	5.8	48
33	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.	1.4	47
34	<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.	1.4	45
35	A Novel Gene Underlies Bleomycin-Response Variation in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2019, 212, 1453-1468.	1.2	43
36	Selection and gene flow shape niche-associated variation in pheromone response. <i>Nature Ecology and Evolution</i> , 2019, 3, 1455-1463.	3.4	41

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37	Shared Genomic Regions Underlie Natural Variation in Diverse Toxin Responses. <i>Genetics</i> , 2018, 210, 1509-1525.	1.2	39
38	The Gene <i>scb-1</i> Underlies Variation in <i>Caenorhabditis elegans</i> Chemotherapeutic Responses. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 2353-2364.	0.8	38
39	Complementary Approaches with Free-living and Parasitic Nematodes to Understanding Anthelmintic Resistance. <i>Trends in Parasitology</i> , 2021, 37, 240-250.	1.5	38
40	Tightly linked antagonistic-effect loci underlie polygenic phenotypic variation in <i>C. elegans</i> . <i>Evolution Letters</i> , 2019, 3, 462-473.	1.6	37
41	Selfing is the safest sex for <i>Caenorhabditis tropicalis</i> . <i>ELife</i> , 2021, 10, .	2.8	37
42	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.	2.9	37
43	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, 1719-1733.	1.2	34
44	An escape-room inspired game for genetics review. <i>Journal of Biological Education</i> , 2021, 55, 406-417.	0.8	27
45	Correlations of Genotype with Climate Parameters Suggest <i>Caenorhabditis elegans</i> Niche Adaptations. <i>G3: Genes, Genomes, Genetics</i> , 2017, 7, 289-298.	0.8	26
46	Mutation Is a Sufficient and Robust Predictor of Genetic Variation for Mitotic Spindle Traits in <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2016, 203, 1859-1870.	1.2	25
47	Two novel loci underlie natural differences in <i>Caenorhabditis elegans</i> abamectin responses. <i>PLoS Pathogens</i> , 2021, 17, e1009297.	2.1	24
48	Mutability of mononucleotide repeats, not oxidative stress, explains the discrepancy between laboratory-accumulated mutations and the natural allele-frequency spectrum in <i>C. elegans</i> . <i>Genome Research</i> , 2021, 31, 1602-1613.	2.4	24
49	Natural variation in the sequestosome-related gene, <i>sqst-5</i> , underlies zinc homeostasis in <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2020, 16, e1008986.	1.5	24
50	Natural genetic variation as a tool for discovery in <i>Caenorhabditis</i> nematodes. <i>Genetics</i> , 2022, 220, .	1.2	24
51	The impact of species-wide gene expression variation on <i>Caenorhabditis elegans</i> complex traits. <i>Nature Communications</i> , 2022, 13, .	5.8	23
52	Population Selection and Sequencing of <i>Caenorhabditis elegans</i> Wild Isolates Identifies a Region on Chromosome III Affecting Starvation Resistance. <i>G3: Genes, Genomes, Genetics</i> , 2019, 9, 3477-3488.	0.8	21
53	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.	1.4	21
54	Multiple Levels of Redundant Processes Inhibit <i>Caenorhabditis elegans</i> Vulval Cell Fates. <i>Genetics</i> , 2008, 179, 2001-2012.	1.2	20

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55	Chromosome-Level Reference Genomes for Two Strains of <i>Caenorhabditis briggsae</i> : An Improved Platform for Comparative Genomics. <i>Genome Biology and Evolution</i> , 2022, 14, .	1.1	20
56	Natural Variation and Genetic Determinants of <i>Caenorhabditis elegans</i> Sperm Size. <i>Genetics</i> , 2019, 213, 615-632.	1.2	19
57	Natural variation in a glucuronosyltransferase modulates propionate sensitivity in a <i>C. elegans</i> propionic acidemia model. <i>PLoS Genetics</i> , 2020, 16, e1008984.	1.5	18
58	Megapixel camera arrays enable high-resolution animal tracking in multiwell plates. <i>Communications Biology</i> , 2022, 5, 253.	2.0	18
59	Evaluating the power and limitations of genome-wide association studies in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2022, 12, .	0.8	17
60	Natural variation in fecundity is correlated with species-wide levels of divergence in <i>Caenorhabditis elegans</i> . <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	0.8	15
61	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.	1.4	14
62	Natural diversity facilitates the discovery of conserved chemotherapeutic response mechanisms. <i>Current Opinion in Genetics and Development</i> , 2017, 47, 41-47.	1.5	11
63	Long-Term Metabolomics Reference Material. <i>Analytical Chemistry</i> , 2021, 93, 9193-9199.	3.2	11
64	A spontaneous complex structural variant in <i>rcan-1</i> increases exploratory behavior and laboratory fitness of <i>Caenorhabditis elegans</i> . <i>PLoS Genetics</i> , 2020, 16, e1008606.	1.5	9
65	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.	1.1	9
66	The distribution of mutational effects on fitness in <i>Caenorhabditis elegans</i> inferred from standing genetic variation. <i>Genetics</i> , 2022, 220, .	1.2	9
67	Local adaptation and spatiotemporal patterns of genetic diversity revealed by repeated sampling of <i>Caenorhabditis elegans</i> across the Hawaiian Islands. <i>Molecular Ecology</i> , 2022, 31, 2327-2347.	2.0	8
68	Interactions of <i>Caenorhabditis elegans</i> $\beta$ -tubulins with the microtubule inhibitor and anthelmintic drug albendazole. <i>Genetics</i> , 2022, 221, .	1.2	8
69	Culture and Assay of Large-Scale Mixed-Stage <i>Caenorhabditis elegans</i> Populations. <i>Journal of Visualized Experiments</i> , 2021, .	0.2	7
70	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, 508-519.	1.1	6
71	Changes in body shape implicate cuticle stretch in <i>C. elegans</i> growth control. <i>Cells and Development</i> , 2022, 170, 203780.	0.7	6
72	easyFulcrum: An R package to process and analyze ecological sampling data generated using the Fulcrum mobile application. <i>PLoS ONE</i> , 2021, 16, e0254293.	1.1	4

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73	Using population selection and sequencing to characterize natural variation of starvation resistance in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 0, 11, .	2.8	4
74	The nematode <i>Caenorhabditis elegans</i> and the terrestrial isopod <i>Porcellio scaber</i> likely interact opportunistically. <i>PLoS ONE</i> , 2020, 15, e0235000.	1.1	2
75	The <i>Caenorhabditis</i> Genetics Center (CGC) and the <i>Caenorhabditis elegans</i> Natural Diversity Resource. , 2019, , 69-94.		2
76	The cadmium-responsive gene, , does not influence responses to exogenous zinc. <i>MicroPublication Biology</i> , 2020, 2020, .	0.1	1
77	The and beta-tubulin genes cannot substitute for loss of the beta-tubulin gene. <i>MicroPublication Biology</i> , 2021, 2021, .	0.1	1
78	Effects of telomerase overexpression in the model organism <i>Caenorhabditis elegans</i> . <i>Gene</i> , 2020, 732, 144367.	1.0	0
79	A Highly Scalable Approach to Perform Ecological Surveys of Selfing <em></em>; <i>Caenorhabditis</i> </em>; Nematodes. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	0
80	Title is missing!. , 2020, 16, e1008984.		0
81	Title is missing!. , 2020, 16, e1008984.		0
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91	Title is missing!. , 2020, 16, e1008606.		0
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