

# Hinrich Schulenburg

## List of Publications by Year in descending order

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98  
papers

6,061  
citations

71102

41  
h-index

91884

69  
g-index

112  
all docs

112  
docs citations

112  
times ranked

5824  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Natural Biotic Environment of <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2017, 206, 55-86.	2.9	339
2	The native microbiome of the nematode <i>Caenorhabditis elegans</i> : gateway to a new host-microbiome model. <i>BMC Biology</i> , 2016, 14, 38.	3.8	330
3	Introduction. <i>Ecological immunology</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2009, 364, 3-14.	4.0	225
4	Anti-Fungal Innate Immunity in <i>C. elegans</i> Is Enhanced by Evolutionary Diversification of Antimicrobial Peptides. <i>PLoS Pathogens</i> , 2008, 4, e1000105.	4.7	212
5	Evolution of the innate immune system: the worm perspective. <i>Immunological Reviews</i> , 2004, 198, 36-58.	6.0	195
6	When the Most Potent Combination of Antibiotics Selects for the Greatest Bacterial Load: The Smile-Frown Transition. <i>PLoS Biology</i> , 2013, 11, e1001540.	5.6	182
7	Specificity of the innate immune system and diversity of C-type lectin domain (CTLD) proteins in the nematode <i>Caenorhabditis elegans</i> . <i>Immunobiology</i> , 2008, 213, 237-250.	1.9	178
8	<i>Caenorhabditis elegans</i> as a Model for Microbiome Research. <i>Frontiers in Microbiology</i> , 2017, 8, 485.	3.5	177
9	Multiple reciprocal adaptations and rapid genetic change upon experimental coevolution of an animal host and its microbial parasite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7359-7364.	7.1	170
10	Comparative analysis of amplicon and metagenomic sequencing methods reveals key features in the evolution of animal metaorganisms. <i>Microbiome</i> , 2019, 7, 133.	11.1	141
11	How do invertebrates generate a highly specific innate immune response?. <i>Molecular Immunology</i> , 2007, 44, 3338-3344.	2.2	138
12	Alternative Evolutionary Paths to Bacterial Antibiotic Resistance Cause Distinct Collateral Effects. <i>Molecular Biology and Evolution</i> , 2017, 34, 2229-2244.	8.9	133
13	Diversity and specificity in the interaction between <i>Caenorhabditis elegans</i> and the pathogen <i>Serratia marcescens</i> . <i>BMC Evolutionary Biology</i> , 2004, 4, 49.	3.2	126
14	High Innate Immune Specificity through Diversified C-Type Lectin-Like Domain Proteins in Invertebrates. <i>Journal of Innate Immunity</i> , 2016, 8, 129-142.	3.8	126
15	Evolutionary History of <i>Caenorhabditis elegans</i> Inferred from Microsatellites: Evidence for Spatial and Temporal Genetic Differentiation and the Occurrence of Outbreeding. <i>Molecular Biology and Evolution</i> , 2004, 22, 160-173.	8.9	123
16	The Role of Integrative and Conjugative Elements in Antibiotic Resistance Evolution. <i>Trends in Microbiology</i> , 2021, 29, 8-18.	7.7	118
17	The genomic basis of Red Queen dynamics during rapid reciprocal host-pathogen coevolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 923-928.	7.1	102
18	CeMbio - The <i>Caenorhabditis elegans</i> Microbiome Resource. <i>G3: Genes, Genomes, Genetics</i> , 2020, 10, 3025-3039.	1.8	96

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19	WormExp: a web-based application for a <i>Caenorhabditis elegans</i> -specific gene expression enrichment analysis. <i>Bioinformatics</i> , 2016, 32, 943-945.	4.1	93
20	Host-parasite coevolution: why changing population size matters. <i>Zoology</i> , 2016, 119, 330-338.	1.2	88
21	Using a Sequential Regimen to Eliminate Bacteria at Sublethal Antibiotic Dosages. <i>PLoS Biology</i> , 2015, 13, e1002104.	5.6	82
22	The genetics of pathogen avoidance in <i>Caenorhabditis elegans</i> . <i>Molecular Microbiology</i> , 2007, 66, 563-570.	2.5	81
23	Antimicrobial effectors in the nematode <i>Caenorhabditis elegans</i> : an outgroup to the Arthropoda. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150299.	4.0	81
24	Cellular hysteresis as a principle to maximize the efficacy of antibiotic therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9767-9772.	7.1	81
25	Lotka-Volterra dynamics kills the Red Queen: population size fluctuations and associated stochasticity dramatically change host-parasite coevolution. <i>BMC Evolutionary Biology</i> , 2013, 13, 254.	3.2	78
26	Antibiotic combination efficacy (ACE) networks for a <i>Pseudomonas aeruginosa</i> model. <i>PLoS Biology</i> , 2018, 16, e2004356.	5.6	72
27	Host-Pathogen Coevolution: The Selective Advantage of <i>Bacillus thuringiensis</i> Virulence and Its Cry Toxin Genes. <i>PLoS Biology</i> , 2015, 13, e1002169.	5.6	69
28	The functional repertoire contained within the native microbiota of the model nematode <i>Caenorhabditis elegans</i> . <i>ISME Journal</i> , 2020, 14, 26-38.	9.8	68
29	Diversification and adaptive sequence evolution of <i>Caenorhabditis</i> lysozymes (Nematoda: Rhabditidae). <i>BMC Evolutionary Biology</i> , 2008, 8, 114.	3.2	67
30	Why we need more ecology for genetic models such as <i>C. elegans</i> . <i>Trends in Genetics</i> , 2015, 31, 120-127.	6.7	67
31	The role of <i>Caenorhabditis elegans</i> insulin-like signaling in the behavioral avoidance of pathogenic <i>Bacillus thuringiensis</i> . <i>FASEB Journal</i> , 2007, 21, 1801-1812.	0.5	65
32	Microbiome-mediated plasticity directs host evolution along several distinct time scales. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190589.	4.0	62
33	Oral immune priming with <i>Bacillus thuringiensis</i> induces a shift in the gene expression of <i>Tribolium castaneum</i> larvae. <i>BMC Genomics</i> , 2017, 18, 329.	2.8	61
34	Neutrality in the Metaorganism. <i>PLoS Biology</i> , 2019, 17, e3000298.	5.6	61
35	Infection routes matter in population-specific responses of the red flour beetle to the entomopathogen <i>Bacillus thuringiensis</i> . <i>BMC Genomics</i> , 2014, 15, 445.	2.8	60
36	Evolutionary stability of collateral sensitivity to antibiotics in the model pathogen <i>Pseudomonas aeruginosa</i> . <i>ELife</i> , 2019, 8, .	6.0	59

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37	The prevalence of <i>Caenorhabditis elegans</i> across 1.5 years in selected North German locations: the importance of substrate type, abiotic parameters, and <i>Caenorhabditis</i> competitors. <i>BMC Ecology</i> , 2014, 14, 4.	3.0	58
38	Protist-Type Lysozymes of the Nematode <i>Caenorhabditis elegans</i> Contribute to Resistance against Pathogenic <i>Bacillus thuringiensis</i> . <i>PLoS ONE</i> , 2011, 6, e24619.	2.5	57
39	Temporal variation in antibiotic environments slows down resistance evolution in pathogenic <i>Pseudomonas aeruginosa</i> . <i>Evolutionary Applications</i> , 2015, 8, 945-955.	3.1	55
40	Gene-environment and protein-degradation signatures characterize genomic and phenotypic diversity in wild <i>Caenorhabditis elegans</i> populations. <i>BMC Biology</i> , 2013, 11, 93.	3.8	53
41	Evolutionary Transition from Pathogenicity to Commensalism: Global Regulator Mutations Mediate Fitness Gains through Virulence Attenuation. <i>Molecular Biology and Evolution</i> , 2015, 32, 2883-2896.	8.9	52
42	Contrasting invertebrate immune defense behaviors caused by a single gene, the <i>Caenorhabditis elegans</i> neuropeptide receptor gene <i>npr-1</i> . <i>BMC Genomics</i> , 2016, 17, 280.	2.8	52
43	Genomics of Rapid Adaptation to Antibiotics: Convergent Evolution and Scalable Sequence Amplification. <i>Genome Biology and Evolution</i> , 2014, 6, 1287-1301.	2.5	50
44	The effect of <i>Photorhabdus luminescens</i> (Enterobacteriaceae) on the survival, development, reproduction and behaviour of <i>Caenorhabditis elegans</i> (Nematoda: Rhabditidae). <i>Environmental Microbiology</i> , 2007, 9, 12-25.	3.8	49
45	Host-parasite local adaptation after experimental coevolution of <i>Caenorhabditis elegans</i> and its microparasite <i>Bacillus thuringiensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 2832-2839.	2.6	49
46	Overlapping and unique signatures in the proteomic and transcriptomic responses of the nematode <i>Caenorhabditis elegans</i> toward pathogenic <i>Bacillus thuringiensis</i> . <i>Developmental and Comparative Immunology</i> , 2015, 51, 1-9.	2.3	49
47	Experimental evolution of immunological specificity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20598-20604.	7.1	49
48	Sex differences in host defence interfere with parasite-mediated selection for outcrossing during host-parasite coevolution. <i>Ecology Letters</i> , 2013, 16, 461-468.	6.4	46
49	Travelling at a slug's pace: possible invertebrate vectors of <i>Caenorhabditis</i> nematodes. <i>BMC Ecology</i> , 2015, 15, 19.	3.0	46
50	Evolutionary ecology meets the antibiotic crisis. <i>Evolution, Medicine and Public Health</i> , 2019, 2019, 37-45.	2.5	43
51	Experimental evolution as an efficient tool to dissect adaptive paths to antibiotic resistance. <i>Drug Resistance Updates</i> , 2013, 16, 96-107.	14.4	42
52	Complete Genome Sequence of <i>Bacillus thuringiensis</i> Strain 407 Cry-. <i>Genome Announcements</i> , 2013, 1, .	0.8	40
53	A multi-parent recombinant inbred line population of <i>C. elegans</i> allows identification of novel QTLs for complex life history traits. <i>BMC Biology</i> , 2019, 17, 24.	3.8	40
54	Experimental insight into the proximate causes of male persistence variation among two strains of the androdioecious <i>Caenorhabditis elegans</i> (Nematoda). <i>BMC Ecology</i> , 2008, 8, 12.	3.0	39

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55	Community assembly of the native <i>C. elegans</i> microbiome is influenced by time, substrate and individual bacterial taxa. <i>Environmental Microbiology</i> , 2020, 22, 1265-1279.	3.8	39
56	<i>Bdellovibrio</i> and Like Organisms Are Predictors of Microbiome Diversity in Distinct Host Groups. <i>Microbial Ecology</i> , 2020, 79, 252-257.	2.8	35
57	Evolutionary Approaches to Combat Antibiotic Resistance: Opportunities and Challenges for Precision Medicine. <i>Frontiers in Immunology</i> , 2020, 11, 1938.	4.8	35
58	GATA transcription factor as a likely key regulator of the <i>Caenorhabditis elegans</i> innate immune response against gut pathogens. <i>Zoology</i> , 2016, 119, 244-253.	1.2	34
59	Association between clinical antibiotic resistance and susceptibility of <i>Pseudomonas</i> in the cystic fibrosis lung. <i>Evolution, Medicine and Public Health</i> , 2016, 2016, 182-194.	2.5	34
60	Bottleneck size and selection level reproducibly impact evolution of antibiotic resistance. <i>Nature Ecology and Evolution</i> , 2021, 5, 1233-1242.	7.8	32
61	ABSSeq: a new RNA-Seq analysis method based on modelling absolute expression differences. <i>BMC Genomics</i> , 2016, 17, 541.	2.8	31
62	Ten years of life in compost: temporal and spatial variation of North German <i>Caenorhabditis elegans</i> populations. <i>Ecology and Evolution</i> , 2015, 5, 3250-3263.	1.9	30
63	Host-parasite coevolution in populations of constant and variable size. <i>BMC Evolutionary Biology</i> , 2015, 15, 212.	3.2	30
64	High potency of sequential therapy with only $\beta$ -lactam antibiotics. <i>ELife</i> , 2021, 10, .	6.0	29
65	Development and characterization of novel microsatellite markers for the common earthworm ( <i>Lumbricus terrestris</i> L.). <i>Molecular Ecology Notes</i> , 2007, 7, 1060-1062.	1.7	28
66	Evolution of Microbiota-Host Associations: The Microbe's Perspective. <i>Trends in Microbiology</i> , 2021, 29, 779-787.	7.7	28
67	Rapid evolution of virulence leading to host extinction under host-parasite coevolution. <i>BMC Evolutionary Biology</i> , 2015, 15, 112.	3.2	27
68	The Inducible Response of the Nematode <i>Caenorhabditis elegans</i> to Members of Its Natural Microbiota Across Development and Adult Life. <i>Frontiers in Microbiology</i> , 2019, 10, 1793.	3.5	26
69	Activation of the <i>Caenorhabditis elegans</i> FOXO family transcription factor DAF-16 by pathogenic <i>Bacillus thuringiensis</i> . <i>Developmental and Comparative Immunology</i> , 2012, 37, 193-201.	2.3	24
70	Gene sharing among plasmids and chromosomes reveals barriers for antibiotic resistance gene transfer. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200467.	4.0	23
71	The <i>C. elegans</i> GATA transcription factor <i>elt-2</i> mediates distinct transcriptional responses and opposite infection outcomes towards different <i>Bacillus thuringiensis</i> strains. <i>PLoS Pathogens</i> , 2020, 16, e1008826.	4.7	22
72	Effector and regulator: Diverse functions of <i>C. elegans</i> C-type lectin-like domain proteins. <i>PLoS Pathogens</i> , 2021, 17, e1009454.	4.7	22

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73	The Genomic Basis of Rapid Adaptation to Antibiotic Combination Therapy in <i>Pseudomonas aeruginosa</i> . <i>Molecular Biology and Evolution</i> , 2021, 38, 449-464.	8.9	21
74	The <i>Caenorhabditis elegans</i> Proteome Response to Naturally Associated Microbiome Members of the Genus <i>Ochrobactrum</i> . <i>Proteomics</i> , 2018, 18, e1700426.	2.2	20
75	Exploring Effects of <i>C. elegans</i> Protective Natural Microbiota on Host Physiology. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 775728.	3.9	20
76	On the evolutionary origins of host-microbe associations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
77	<i>Pseudomonas aeruginosa</i> populations in the cystic fibrosis lung lose susceptibility to newly applied $\beta$ -lactams within 3 days. <i>Journal of Antimicrobial Chemotherapy</i> , 2019, 74, 2916-2925.	3.0	17
78	Host-parasite coevolution-rapid reciprocal adaptation and its genetic basis. <i>Zoology</i> , 2016, 119, 241-243.	1.2	16
79	Increased responsiveness in feeding behaviour of <i>Caenorhabditis elegans</i> after experimental coevolution with its microparasite <i>Bacillus thuringiensis</i> . <i>Biology Letters</i> , 2012, 8, 234-236.	2.3	15
80	Modeling host-associating microbes under selection. <i>ISME Journal</i> , 2021, 15, 3648-3656.	9.8	15
81	How long do Red Queen dynamics survive under genetic drift? A comparative analysis of evolutionary and eco-evolutionary models. <i>BMC Evolutionary Biology</i> , 2020, 20, 8.	3.2	13
82	When experimental selection for virulence leads to loss of virulence. <i>Trends in Parasitology</i> , 2015, 31, 426-434.	3.3	12
83	Highly potent host external immunity acts as a strong selective force enhancing rapid parasite virulence evolution. <i>Environmental Microbiology</i> , 2017, 19, 2090-2100.	3.8	11
84	Population size impacts host-pathogen coevolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20212269.	2.6	11
85	Complete Genome sequence of the nematocidal <i>Bacillus thuringiensis</i> MYBT18246. <i>Standards in Genomic Sciences</i> , 2017, 12, 48.	1.5	10
86	aFold using polynomial uncertainty modelling for differential gene expression estimation from RNA sequencing data. <i>BMC Genomics</i> , 2019, 20, 364.	2.8	9
87	Complete genome sequence of the nematocidal <i>Bacillus thuringiensis</i> MYBT18247. <i>Journal of Biotechnology</i> , 2017, 260, 48-52.	3.8	8
88	The genetics of gene expression in a <i>Caenorhabditis elegans</i> multiparental recombinant inbred line population. <i>G3: Genes, Genomes, Genetics</i> , 2021, 11, .	1.8	8
89	Do males facilitate the spread of novel phenotypes within populations of the androdioecious nematode <i>Caenorhabditis elegans</i> ?. <i>Journal of Nematology</i> , 2009, 41, 247-54.	0.9	6
90	High instability of a nematocidal Cry toxin plasmid in <i>Bacillus thuringiensis</i> . <i>Journal of Invertebrate Pathology</i> , 2016, 133, 34-40.	3.2	5

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91	Experimental evolution in silico: a custom-designed mathematical model for virulence evolution of <i>Bacillus thuringiensis</i> . <i>Zoology</i> , 2016, 119, 359-365.	1.2	3
92	The effects of nested miRNAs and their host genes on immune defense against <i>Bacillus thuringiensis</i> infection in <i>Caenorhabditis elegans</i> . <i>Developmental and Comparative Immunology</i> , 2021, 123, 104144.	2.3	3
93	The Antibiotic Dosage of Fastest Resistance Evolution: Gene Amplifications Underpinning the Inverted-U. <i>Molecular Biology and Evolution</i> , 2021, 38, 3847-3863.	8.9	1
94	Infection Models: Novel Potato Blight-like Pathogens in Worms. <i>Current Biology</i> , 2018, 28, R273-R275.	3.9	0
95	Title is missing!. , 2020, 16, e1008826.		0
96	Title is missing!. , 2020, 16, e1008826.		0
97	Title is missing!. , 2020, 16, e1008826.		0
98	Title is missing!. , 2020, 16, e1008826.		0