

# Neil Crickmore

## List of Publications by Year in descending order

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88  
papers

8,571  
citations

117453

34  
h-index

60497

81  
g-index

89  
all docs

89  
docs citations

89  
times ranked

4166  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Bacillus thuringiensis</i> and Its Pesticidal Crystal Proteins. <i>Microbiology and Molecular Biology Reviews</i> , 1998, 62, 775-806.	2.9	2,505
2	Revision of the Nomenclature for the <i>Bacillus thuringiensis</i> Pesticidal Crystal Proteins. <i>Microbiology and Molecular Biology Reviews</i> , 1998, 62, 807-813.	2.9	894
3	How <i>Bacillus thuringiensis</i> has evolved specific toxins to colonize the insect world. <i>Trends in Genetics</i> , 2001, 17, 193-199.	2.9	530
4	The receptor for <i>Bacillus thuringiensis</i> CryIA(c) delta-endotoxin in the brush border membrane of the lepidopteran <i>Manduca sexta</i> is aminopeptidase N. <i>Molecular Microbiology</i> , 1994, 11, 429-436.	1.2	417
5	Structure, Diversity, and Evolution of Protein Toxins from Spore-Forming Entomopathogenic Bacteria. <i>Annual Review of Genetics</i> , 2003, 37, 409-433.	3.2	338
6	<i>Bacillus thuringiensis</i> : an impotent pathogen?. <i>Trends in Microbiology</i> , 2010, 18, 189-194.	3.5	297
7	Optimizing pyramided transgenic Bt crops for sustainable pest management. <i>Nature Biotechnology</i> , 2015, 33, 161-168.	9.4	286
8	Parallel Evolution of <i>Bacillus thuringiensis</i> Toxin Resistance in Lepidoptera. <i>Genetics</i> , 2011, 189, 675-679.	1.2	239
9	Diversity of <i>Bacillus thuringiensis</i> Crystal Toxins and Mechanism of Action. <i>Advances in Insect Physiology</i> , 2014, 47, 39-87.	1.1	237
10	A structure-based nomenclature for <i>Bacillus thuringiensis</i> and other bacteria-derived pesticidal proteins. <i>Journal of Invertebrate Pathology</i> , 2021, 186, 107438.	1.5	177
11	Specificity determinants for Cry insecticidal proteins: Insights from their mode of action. <i>Journal of Invertebrate Pathology</i> , 2017, 142, 5-10.	1.5	138
12	Contribution of the individual components of the $\delta$ -endotoxin crystal to the mosquitocidal activity of <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> . <i>FEMS Microbiology Letters</i> , 1995, 131, 249-254.	0.7	132
13	Contribution of the individual components of the $\delta$ -endotoxin crystal to the mosquitocidal activity of <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> . <i>FEMS Microbiology Letters</i> , 1995, 131, 249-254.	0.7	128
14	Genetics and mechanism of resistance to deltamethrin in a field population of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). <i>Pest Management Science</i> , 2007, 63, 1002-1010.	1.7	97
15	Beyond the spore – past and future developments of <i>Bacillus thuringiensis</i> as a biopesticide. <i>Journal of Applied Microbiology</i> , 2006, 101, 616-619.	1.4	96
16	Involvement of a possible chaperonin in the efficient expression of a cloned CryIIA $\delta$ -endotoxin gene in <i>Bacillus thuringiensis</i> . <i>Molecular Microbiology</i> , 1992, 6, 1533-1537.	1.2	95
17	Genetic, Biochemical, and Physiological Characterization of Spinosad Resistance in <i>Plutella xylostella</i> (Lepidoptera: Plutellidae). <i>Journal of Economic Entomology</i> , 2008, 101, 1658-1666.	0.8	91
18	Comparison of <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> CryIVA and CryIVB cloned toxins reveals synergism in vivo. <i>FEMS Microbiology Letters</i> , 1992, 94, 63-68.	0.7	83

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19	A mid-gut microbiota is not required for the pathogenicity of <i>Bacillus thuringiensis</i> to diamondback moth larvae. <i>Environmental Microbiology</i> , 2009, 11, 2556-2563.	1.8	82
20	Fitness Costs Limit the Development of Resistance to Indoxacarb and Deltamethrin in <i>Heliothis virescens</i> (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 2008, 101, 1927-1933.	0.8	80
21	MAPK-dependent hormonal signaling plasticity contributes to overcoming <i>Bacillus thuringiensis</i> toxin action in an insect host. <i>Nature Communications</i> , 2020, 11, 3003.	5.8	78
22	Mining New Crystal Protein Genes from <i>Bacillus thuringiensis</i> on the Basis of Mixed Plasmid-Enriched Genome Sequencing and a Computational Pipeline. <i>Applied and Environmental Microbiology</i> , 2012, 78, 4795-4801.	1.4	76
23	Using worms to better understand how <i>Bacillus thuringiensis</i> kills insects. <i>Trends in Microbiology</i> , 2005, 13, 347-350.	3.5	74
24	Gut Bacteria Are Not Required for the Insecticidal Activity of <i>Bacillus thuringiensis</i> toward the Tobacco Hornworm, <i>Manduca sexta</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 5094-5099.	1.4	73
25	Cloning and characterization of a novel Cry1A toxin from <i>Bacillus thuringiensis</i> with high toxicity to the Asian corn borer and other lepidopteran insects. <i>FEMS Microbiology Letters</i> , 2008, 280, 95-101.	0.7	72
26	Is There Sufficient Evidence to Consider <i>Bacillus thuringiensis</i> a Multihost Pathogen? Response to Loguercio and Arg�lo-Filho. <i>Trends in Microbiology</i> , 2015, 23, 587.	3.5	62
27	Structure of recombinant VesA <sub>2</sub> at 2.0 � resolution: structural analysis of an allergenic hyaluronidase from wasp venom. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 595-604.	2.5	61
28	N-terminal Activation Is an Essential Early Step in the Mechanism of Action of the <i>Bacillus thuringiensis</i> Cry1Ac Insecticidal Toxin. <i>Journal of Biological Chemistry</i> , 2002, 277, 23985-23987.	1.6	53
29	Common, but Complex, Mode of Resistance of <i>Plutella xylostella</i> to <i>Bacillus thuringiensis</i> Toxins Cry1Ab and Cry1Ac. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6863-6869.	1.4	52
30	Are nematodes a missing link in the confounded ecology of the entomopathogen <i>Bacillus thuringiensis</i> ?. <i>Trends in Microbiology</i> , 2015, 23, 341-346.	3.5	52
31	Genetic, Biochemical, and Physiological Characterization of Spinosad Resistance in <i>Plutella xylostella</i> (Lepidoptera: Plutellidae). <i>Journal of Economic Entomology</i> , 2008, 101, 1658-1666.	0.8	45
32	<i>Bacillus thuringiensis</i> Toxin Classification. , 2017, , 41-52.		43
33	Cross-resistance between a <i>Bacillus thuringiensis</i> Cry toxin and non-Bt insecticides in the diamondback moth. <i>Pest Management Science</i> , 2008, 64, 813-819.	1.7	39
34	Effects on toxicity of eliminating a cleavage site in a predicted interhelical loop in <i>Bacillus thuringiensis</i> CryIVB �-endotoxin. <i>FEMS Microbiology Letters</i> , 1993, 111, 255-261.	0.7	38
35	The regulation landscape of MAPK signaling cascade for thwarting <i>Bacillus thuringiensis</i> infection in an insect host. <i>PLoS Pathogens</i> , 2021, 17, e1009917.	2.1	37
36	Cyt1Aa from <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> Is Toxic to the Diamondback Moth, <i>Plutella xylostella</i> , and Synergizes the Activity of Cry1Ac towards a Resistant Strain. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5859-5861.	1.4	35

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37	Structural classification of insecticidal proteins – Towards an in silico characterisation of novel toxins. <i>Journal of Invertebrate Pathology</i> , 2017, 142, 16-22.	1.5	34
38	Selection of a Field Population of Diamondback Moth (Lepidoptera: Plutellidae) with Acetamiprid Maintains, but Does Not Increase, Cross-Resistance to Pyrethroids. <i>Journal of Economic Entomology</i> , 2007, 100, 932-938.	0.8	33
39	Susceptibility of a Field-Derived, <i>Bacillus thuringiensis</i> -Resistant Strain of Diamondback Moth to In Vitro-Activated Cry1Ac Toxin. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4372-4373.	1.4	32
40	Effects of glutathione-S-transferase polymorphisms on the risk of breast cancer: A population-based case-control study in Pakistan. <i>Environmental Toxicology and Pharmacology</i> , 2013, 35, 143-153.	2.0	31
41	Genomic sequencing identifies novel <i>Bacillus thuringiensis</i> Vip1/Vip2 binary and Cry8 toxins that have high toxicity to Scarabaeoidea larvae. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 753-760.	1.7	31
42	<i>Bacillus thuringiensis</i> resistance in <i>Plutella</i> – too many trees?. <i>Current Opinion in Insect Science</i> , 2016, 15, 84-88.	2.2	30
43	Use of an operon fusion to induce expression and crystallisation of a <i>Bacillus thuringiensis</i> $\delta$ -endotoxin encoded by a cryptic gene. <i>Molecular Genetics and Genomics</i> , 1994, 242, 365-368.	2.4	29
44	<i>Bacillus thuringiensis</i> Applications in Agriculture. , 2012, , 19-39.		28
45	Cross-Resistance and Stability of Resistance to <i>Bacillus thuringiensis</i> Toxin Cry1C in Diamondback Moth. <i>Applied and Environmental Microbiology</i> , 2001, 67, 3216-3219.	1.4	26
46	A versatile contribution of both aminopeptidases N and ABC transporters to Bt Cry1Ac toxicity in the diamondback moth. <i>BMC Biology</i> , 2022, 20, 33.	1.7	26
47	The <i>Escherichia coli</i> heat shock regulatory gene is immediately downstream of a cell division operon: The fam mutation is allelic with rpoH. <i>Molecular Genetics and Genomics</i> , 1986, 205, 535-539.	2.4	23
48	MAPK-mediated transcription factor GATAd contributes to Cry1Ac resistance in diamondback moth by reducing PxmALP expression. <i>PLoS Genetics</i> , 2022, 18, e1010037.	1.5	23
49	Genetic Characterization of Resistance to Deltamethrin in <i>Plutella xylostella</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overloc	0.8	22
50	In Vivo Crystallization of Three-Domain Cry Toxins. <i>Toxins</i> , 2017, 9, 80.	1.5	21
51	Cytotoxicity of a cloned <i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> CryIVB toxin to an <i>Aedes aegypti</i> cell line. <i>FEMS Microbiology Letters</i> , 1991, 83, 273-276.	0.7	20
52	Characterization of a new highly mosquitocidal isolate of <i>Bacillus thuringiensis</i> – An alternative to Bti?. <i>Journal of Invertebrate Pathology</i> , 2012, 109, 217-222.	1.5	19
53	Cellular Localization and Characterization of the <i>Bacillus thuringiensis</i> Orf2 Crystallization Factor. <i>Current Microbiology</i> , 2001, 42, 388-392.	1.0	18
54	Temperature-dependent development of <i>Helicoverpa armigera</i> (Hübner) (Lepidoptera: Noctuidae) and its larval parasitoid, <i>Habrobracon hebetor</i> (Say) (Hymenoptera: Braconidae): implications for species interactions. <i>Bulletin of Entomological Research</i> , 2018, 108, 295-304.	0.5	18

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55	Lack of Cry1Fa Binding to the Midgut Brush Border Membrane in a Resistant Colony of <i>Plutella xylostella</i> Moths with a Mutation in the <i>ABCC2</i> Locus. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6759-6761.	1.4	17
56	Cry78Aa, a novel <i>Bacillus thuringiensis</i> insecticidal protein with activity against <i>Laodelphax striatellus</i> and <i>Nilaparvata lugens</i> . <i>Journal of Invertebrate Pathology</i> , 2018, 158, 1-5.	1.5	17
57	The human cancer cell active toxin Cry41Aa from <i>Bacillus thuringiensis</i> acts like its insecticidal counterparts. <i>Biochemical Journal</i> , 2017, 474, 1591-1602.	1.7	16
58	MAPK-Activated Transcription Factor PxBJun Suppresses <i>PxABC1</i> Expression and Confers Resistance to <i>Bacillus thuringiensis</i> Cry1Ac Toxin in <i>Plutella xylostella</i> (L.). <i>Applied and Environmental Microbiology</i> , 2021, 87, e0046621.	1.4	16
59	Cultivable Gut Bacteria of Scarabs (Coleoptera: Scarabaeidae) Inhibit <i>Bacillus thuringiensis</i> Multiplication. <i>Environmental Entomology</i> , 2014, 43, 612-616.	0.7	15
60	BPPRC database: a web-based tool to access and analyse bacterial pesticidal proteins. <i>Database: the Journal of Biological Databases and Curation</i> , 2022, 2022, .	1.4	15
61	The diversity of <i>Bacillus thuringiensis</i> $\delta$ -endotoxins. , 2000, , 65-79.		13
62	Use of a pooled clone method to isolate a novel <i>Bacillus thuringiensis</i> Cry2A toxin with activity against <i>Ostrinia furnacalis</i> . <i>Journal of Invertebrate Pathology</i> , 2013, 114, 31-33.	1.5	12
63	Efficacy of insecticide mixtures against a resistant strain of house fly (Diptera: Muscidae) collected from a poultry farm. <i>International Journal of Tropical Insect Science</i> , 2015, 35, 48-53.	0.4	12
64	Selection of a field population of diamondback moth (Lepidoptera: Plutellidae) with acetamiprid maintains, but does not increase, cross-resistance to pyrethroids. <i>Journal of Economic Entomology</i> , 2007, 100, 932-8.	0.8	12
65	The impact of strain diversity and mixed infections on the evolution of resistance to <i>Bacillus thuringiensis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131497.	1.2	11
66	A cis-Acting Mutation in the <i>PxABC1</i> Promoter Is Associated with Cry1Ac Resistance in <i>Plutella xylostella</i> (L.). <i>International Journal of Molecular Sciences</i> , 2021, 22, 6106.	1.8	11
67	MAP4K4 controlled transcription factor <i>POUM1</i> regulates <i>PxABC1</i> expression influencing Cry1Ac resistance in <i>Plutella xylostella</i> (L.). <i>Pesticide Biochemistry and Physiology</i> , 2022, 182, 105053.	1.6	11
68	Host stage preference and parasitism behaviour of <i>Aenasius bambawalei</i> an encyrtid parasitoid of <i>Phenacoccus solenopsis</i> . <i>Biocontrol Science and Technology</i> , 2016, 26, 1605-1616.	0.5	9
69	A natural hybrid of a <i>Bacillus thuringiensis</i> Cry2A toxin implicates Domain I in specificity determination. <i>Journal of Invertebrate Pathology</i> , 2017, 150, 35-40.	1.5	9
70	Expression of the <i>Bacillus thuringiensis</i> Mosquitocidal Toxin Cry11Aa in the Aquatic Bacterium <i>Asticcacaulis excentricus</i> . <i>Current Microbiology</i> , 2005, 51, 430-433.	1.0	8
71	Glabralysins, Potential New $\beta$ -Pore-Forming Toxin Family Members from the Schistosomiasis Vector Snail <i>Biomphalaria glabrata</i> . <i>Genes</i> , 2020, 11, 65.	1.0	7
72	Divergence in environmental adaptation between terrestrial clades of the <i>Bacillus cereus</i> group. <i>FEMS Microbiology Ecology</i> , 2020, 97, .	1.3	7

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73	Identification of a mosquitocidal toxin from <i>Bacillus thuringiensis</i> using mass spectrometry. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 3273-3277.	1.7	6
74	Mining rare and ubiquitous toxin genes from a large collection of <i>Bacillus thuringiensis</i> strains. <i>Journal of Invertebrate Pathology</i> , 2014, 122, 6-9.	1.5	6
75	Novel genetic factors involved in resistance to <i>Bacillus thuringiensis</i> in <i>Plutella xylostella</i> . <i>Insect Molecular Biology</i> , 2015, 24, 589-600.	1.0	6
76	The role of membrane-bound metal ions in toxicity of a human cancer cell-active pore-forming toxin Cry41Aa from <i>Bacillus thuringiensis</i> . <i>Toxicon</i> , 2019, 167, 123-133.	0.8	6
77	Expression and Crystallization of an N-Terminally Activated Form of the <i>Bacillus thuringiensis</i> Cry1Ca Toxin. <i>Current Microbiology</i> , 2001, 43, 371-373.	1.0	5
78	Co-Expression of the Mosquitocidal Toxins Cyt1Aa and Cry11Aa from <i>Bacillus thuringiensis</i> Subsp. israelensis in <i>Asticacaulis excentricus</i> . <i>Current Microbiology</i> , 2007, 54, 58-62.	1.0	5
79	In vitro template-change PCR to create single crossover libraries: a case study with <i>B. thuringiensis</i> Cry2A toxins. <i>Scientific Reports</i> , 2016, 6, 23536.	1.6	5
80	Identification of <i>Aedes aegypti</i> specificity motifs in the N-terminus of the <i>Bacillus thuringiensis</i> Cry2Aa pesticidal protein. <i>Journal of Invertebrate Pathology</i> , 2020, 174, 107423.	1.5	5
81	Bt toxin not guilty by association. <i>Nature Biotechnology</i> , 2005, 23, 791-791.	9.4	3
82	Use of a simplified rapid size screen protocol for the detection of recombinant plasmids. <i>Technical Tips Online</i> , 1997, 2, 136-137.	0.2	2
83	Use of Redundant Exclusion PCR To Identify a Novel <i>Bacillus thuringiensis</i> Cry8 Toxin Gene from Pooled Genomic DNA. <i>Applied and Environmental Microbiology</i> , 2016, 82, 3808-3815.	1.4	2
84	Synthesis of novel heteroleptic delocalised cationic pyrazole gold complexes as potent HepG2 cytotoxic agents. <i>Dalton Transactions</i> , 2018, 47, 15338-15343.	1.6	2
85	Differential proteolytic activation of the <i>Bacillus thuringiensis</i> Cry41Aa parasporin modulates its anticancer effect. <i>Biochemical Journal</i> , 2019, 476, 3805-3816.	1.7	1
86	Identification of a Novel DNA Methyltransferase Activity from <i>Bacillus thuringiensis</i> . <i>Current Microbiology</i> , 2003, 47, 144-145.	1.0	0
87	Comparison of <i>Phenacoccus solenopsis</i> specimens from different regions of Pakistan using COI molecular barcoding (Hemiptera: Pseudococcidae). <i>Annales De La Societe Entomologique De France</i> , 2017, 53, 374-378.	0.4	0
88	Probing the Mechanism of Action of Cry41Aa on HepG2 through the Establishment of a Resistant Subline. <i>Toxins</i> , 2022, 14, 319.	1.5	0