Neil Crickmore

List of Publications by Year
in descending order

88 papers	8,571 citations	117625 34 h-index	60623 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. Microbiology and Molecular Biology Reviews, 1998, 62, 775-806.	6.6	2,505
2	Revision of the Nomenclature for the <i>Bacillus thuringiensis</i> Pesticidal Crystal Proteins. Microbiology and Molecular Biology Reviews, 1998, 62, 807-813.	6.6	894
3	How Bacillus thuringiensis has evolved specific toxins to colonize the insect world. Trends in Genetics, 2001, 17, 193-199.	6.7	530
4	The receptor for Bacillus thuringiensis CryIA(c) delta-endotoxin in the brush border membrane of the lepidopteran Manduca sexta is aminopeptidase N. Molecular Microbiology, 1994, 11, 429-436.	2.5	417
5	Structure, Diversity, and Evolution of Protein Toxins from Spore-Forming Entomopathogenic Bacteria. Annual Review of Genetics, 2003, 37, 409-433.	7.6	338
6	Bacillus thuringiensis: an impotent pathogen?. Trends in Microbiology, 2010, 18, 189-194.	7.7	297
7	Optimizing pyramided transgenic Bt crops for sustainable pest management. Nature Biotechnology, 2015, 33, 161-168.	17.5	286
8	Parallel Evolution of <i>Bacillus thuringiensis</i> Toxin Resistance in Lepidoptera. Genetics, 2011, 189, 675-679.	2.9	239
9	Diversity of Bacillus thuringiensis Crystal Toxins and Mechanism of Action. Advances in Insect Physiology, 2014, 47, 39-87.	2.7	237
10	A structure-based nomenclature for Bacillus thuringiensis and other bacteria-derived pesticidal proteins. Journal of Invertebrate Pathology, 2021, 186, 107438.	3.2	177
11	Specificity determinants for Cry insecticidal proteins: Insights from their mode of action. Journal of Invertebrate Pathology, 2017, 142, 5-10.	3.2	138
12	Contribution of the individual components of the ÃŽÂ´-endotoxin crystal to the mosquitocidal activity ofBacillus thuringiensissubsp.israelensis. FEMS Microbiology Letters, 1995, 131, 249-254.	1.8	132
13	Contribution of the individual components of the Î´-endotoxin crystal to the mosquitocidal activity of Bacillus thuringiensis subsp. israelensis. FEMS Microbiology Letters, 1995, 131, 249-254.	1.8	128
14	Genetics and mechanism of resistance to deltamethrin in a field population of <i>Spodoptera litura</i> (Lepidoptera: Noctuidae). Pest Management Science, 2007, 63, 1002-1010.	3.4	97
15	Beyond the spore â€“ past and future developments of Bacillus thuringiensis as a biopesticide. Journal of Applied Microbiology, 2006, 101, 616-619.	3.1	96
16	Involvement of a possible chaperonin in the efficient expression of a cloned CryIIA Î´â€endotoxin gene in <i>Bacillus thuringiensis</i>. Molecular Microbiology, 1992, 6, 1533-1537.	2.5	95
17	Genetic, Biochemical, and Physiological Characterization of Spinosad Resistance in Plutella xylostella (Lepidoptera: Plutellidae). Journal of Economic Entomology, 2008, 101, 1658-1666.	1.8	91
18	Comparison ofBacillus thuringiensissubsp.israelensisCryIVA and CryIVB cloned toxins reveals synergism in vivo. FEMS Microbiology Letters, 1992, 94, 63-68.	1.8	83

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19	A midâ€gut microbiota is not required for the pathogenicity of <i>Bacillus thuringiensis</i> to diamondback moth larvae. Environmental Microbiology, 2009, 11, 2556-2563.	3.8	82
20	Fitness Costs Limit the Development of Resistance to Indoxacarb and Deltamethrin in <I>Heliothis virescens</I> (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2008, 101, 1927-1933.	1.8	80
21	MAPK-dependent hormonal signaling plasticity contributes to overcoming Bacillus thuringiensis toxin action in an insect host. Nature Communications, 2020, 11, 3003.	12.8	78
22	Mining New Crystal Protein Genes from Bacillus thuringiensis on the Basis of Mixed Plasmid-Enriched Genome Sequencing and a Computational Pipeline. Applied and Environmental Microbiology, 2012, 78, 4795-4801.	3.1	76
23	Using worms to better understand how Bacillus thuringiensis kills insects. Trends in Microbiology, 2005, 13, 347-350.	7.7	74
24	Gut Bacteria Are Not Required for the Insecticidal Activity of <i>Bacillus thuringiensis</i> toward the Tobacco Hornworm, <i>Manduca sexta</i>. Applied and Environmental Microbiology, 2009, 75, 5094-5099.	3.1	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. FEMS Microbiology Letters, 2008, 280, 95-101.	1.8	72
26	Is There Sufficient Evidence to Consider Bacillus thuringiensis a Multihost Pathogen? Response to Loguercio and ArgÃ´lo-Filho. Trends in Microbiology, 2015, 23, 587.	7.7	62
27	Structure of recombinant Vesâ€…vâ€…2 at 2.0â€…Ã… resolution: structural analysis of an allergenic hyaluronidase from wasp venom. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 595-604.	2.5	61
28	N-terminal Activation Is an Essential Early Step in the Mechanism of Action of the Bacillus thuringiensis Cry1Ac Insecticidal Toxin. Journal of Biological Chemistry, 2002, 277, 23985-23987.	3.4	53
29	Common, but Complex, Mode of Resistance of Plutella xylostella to Bacillus thuringiensis Toxins Cry1Ab and Cry1Ac. Applied and Environmental Microbiology, 2005, 71, 6863-6869.	3.1	52
30	Are nematodes a missing link in the confounded ecology of the entomopathogen Bacillus thuringiensis?. Trends in Microbiology, 2015, 23, 341-346.	7.7	52
31	Genetic, Biochemical, and Physiological Characterization of Spinosad Resistance in <I>Plutella xylostella</I> (Lepidoptera: Plutellidae). Journal of Economic Entomology, 2008, 101, 1658-1666.	1.8	45
32	Bacillus thuringiensis Toxin Classification. , 2017, , 41-52.		43
33	Crossâ€resistance between a <i>Bacillus thuringiensis</i> Cry toxin and nonâ€<i>Bt</i> insecticides in the diamondback moth. Pest Management Science, 2008, 64, 813-819.	3.4	39
34	Effects on toxicity of eliminating a cleavage site in a predicted interhelical loop inBacillus thuringiensisCryIVB ÃŽÂ´-endotoxin. FEMS Microbiology Letters, 1993, 111, 255-261.	1.8	38
35	The regulation landscape of MAPK signaling cascade for thwarting Bacillus thuringiensis infection in an insect host. PLoS Pathogens, 2021, 17, e1009917.	4.7	37
36	Cyt1Aa from Bacillus thuringiensis subsp. israelensis Is Toxic to the Diamondback Moth, Plutella xylostella , and Synergizes the Activity of Cry1Ac towards a Resistant Strain. Applied and Environmental Microbiology, 2001, 67, 5859-5861.	3.1	35

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37	Structural classification of insecticidal proteins â€" Towards an in silico characterisation of novel toxins. Journal of Invertebrate Pathology, 2017, 142, 16-22.	3.2	34
38	Selection of a Field Population of Diamondback Moth (Lepidoptera: Plutellidae) with Acetamiprid Maintains, but Does Not Increase, Cross-Resistance to Pyrethroids. Journal of Economic Entomology, 2007, 100, 932-938.	1.8	33
39	Susceptibility of a Field-Derived, Bacillus thuringiensis -Resistant Strain of Diamondback Moth to In Vitro-Activated Cry1Ac Toxin. Applied and Environmental Microbiology, 2001, 67, 4372-4373.	3.1	32
40	Effects of glutathione-S-transferase polymorphisms on the risk of breast cancer: A population-based caseâ€"control study in Pakistan. Environmental Toxicology and Pharmacology, 2013, 35, 143-153.	4.0	31
41	Genomic sequencing identifies novel Bacillus thuringiensis Vip1/Vip2 binary and Cry8 toxins that have high toxicity to Scarabaeoidea larvae. Applied Microbiology and Biotechnology, 2015, 99, 753-760.	3.6	31
42	Bacillus thuringiensis resistance in Plutella â€" too many trees?. Current Opinion in Insect Science, 2016, 15, 84-88.	4.4	30
43	Use of an operon fusion to induce expression and crystallisation of a Bacillus thuringiensis Î´-endotoxin encoded by a cryptic gene. Molecular Genetics and Genomics, 1994, 242, 365-368.	2.4	29
44	Bacillus thuringiensis Applications in Agriculture. , 2012, , 19-39.		28
45	Cross-Resistance and Stability of Resistance to Bacillus thuringiensis Toxin Cry1C in Diamondback Moth. Applied and Environmental Microbiology, 2001, 67, 3216-3219.	3.1	26
46	A versatile contribution of both aminopeptidases N and ABC transporters to Bt Cry1Ac toxicity in the diamondback moth. BMC Biology, 2022, 20, 33.	3.8	26
47	The Escherichia coli heat shock regulatory gene is immediately downstream of a cell division operon: The fam mutation is allelic with rpoH. Molecular Genetics and Genomics, 1986, 205, 535-539.	2.4	23
48	MAPK-mediated transcription factor GATAd contributes to Cry1Ac resistance in diamondback moth by reducing PxmALP expression. PLoS Genetics, 2022, 18, e1010037.	3.5	23
49	Genetic Characterization of Resistance to Deltamethrin in <I>Plutella xylostella</I> (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	22
50	In Vivo Crystallization of Three-Domain Cry Toxins. Toxins, 2017, 9, 80.	3.4	21
51	Cytotoxicity of a clonedBacillus thuringiensissubsp.israelensisCryIVB toxin to anAedes aegypticell line. FEMS Microbiology Letters, 1991, 83, 273-276.	1.8	20
52	Characterization of a new highly mosquitocidal isolate of Bacillus thuringiensis â€" An alternative to Bti?. Journal of Invertebrate Pathology, 2012, 109, 217-222.	3.2	19
53	Cellular Localization and Characterization of the Bacillus thuringiensis Orf2 Crystallization Factor. Current Microbiology, 2001, 42, 388-392.	2.2	18
54	Temperature-dependent development of <i>Helicoverpa armigera</i> (HÃ¼bner) (Lepidoptera: Noctuidae) and its larval parasitoid, <i>Habrobracon hebetor</i> (Say) (Hymenoptera: Braconidae): implications for species interactions. Bulletin of Entomological Research, 2018, 108, 295-304.	1.0	18

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55	Lack of Cry1Fa Binding to the Midgut Brush Border Membrane in a Resistant Colony of Plutella xylostella Moths with a Mutation in the <i>ABCC2</i> Locus. Applied and Environmental Microbiology, 2012, 78, 6759-6761.	3.1	17
56	Cry78Aa, a novel Bacillus thuringiensis insecticidal protein with activity against Laodelphax striatellus and Nilaparvata lugens. Journal of Invertebrate Pathology, 2018, 158, 1-5.	3.2	17
57	The human cancer cell active toxin Cry41Aa from <i>Bacillus thuringiensis</i> acts like its insecticidal counterparts. Biochemical Journal, 2017, 474, 1591-1602.	3.7	16
58	MAPK-Activated Transcription Factor PxJun Suppresses <i>PxABCB1</i> Expression and Confers Resistance to <i>Bacillus thuringiensis</i> Cry1Ac Toxin in <i>Plutella xylostella</i> (L.). Applied and Environmental Microbiology, 2021, 87, e0046621.	3.1	16
59	Cultivable Gut Bacteria of Scarabs (Coleoptera: Scarabaeidae) InhibitBacillus thuringiensisMultiplication. Environmental Entomology, 2014, 43, 612-616.	1.4	15
60	BPPRC database: a web-based tool to access and analyse bacterial pesticidal proteins. Database: the Journal of Biological Databases and Curation, 2022, 2022, .	3.0	15
61	The diversity of Bacillus thuringiensis Î´-endotoxins. , 2000, , 65-79.		13
62	Use of a pooled clone method to isolate a novel Bacillus thuringiensis Cry2A toxin with activity against Ostrinia furnacalis. Journal of Invertebrate Pathology, 2013, 114, 31-33.	3.2	12
63	Efficacy of insecticide mixtures against a resistant strain of house fly (Diptera: Muscidae) collected from a poultry farm. International Journal of Tropical Insect Science, 2015, 35, 48-53.	1.0	12
64	Selection of a Field Population of Diamondback Moth (Lepidoptera: Plutellidae) with Acetamiprid Maintains, but Does Not Increase, Cross-Resistance to Pyrethroids. Journal of Economic Entomology, 2007, 100, 932-938.	1.8	12
65	The impact of strain diversity and mixed infections on the evolution of resistance to <i>Bacillus thuringiensis</i>. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131497.	2.6	11
66	A cis-Acting Mutation in the PxABCG1 Promoter Is Associated with Cry1Ac Resistance in Plutella xylostella (L.). International Journal of Molecular Sciences, 2021, 22, 6106.	4.1	11
67	MAP4K4 controlled transcription factor POUM1 regulates PxABCG1 expression influencing Cry1Ac resistance in Plutella xylostella (L.). Pesticide Biochemistry and Physiology, 2022, 182, 105053.	3.6	11
68	Host stage preference and parasitism behaviour of <i>Aenasius bambawalei</i> an encyrtid parasitoid of <i>Phenacoccus solenopsis</i>. Biocontrol Science and Technology, 2016, 26, 1605-1616.	1.3	9
69	A natural hybrid of a Bacillus thuringiensis Cry2A toxin implicates Domain I in specificity determination. Journal of Invertebrate Pathology, 2017, 150, 35-40.	3.2	9
70	Expression of the Bacillus thuringiensis Mosquitocidal Toxin Cry11Aa in the Aquatic Bacterium Asticcacaulis excentricus. Current Microbiology, 2005, 51, 430-433.	2.2	8
71	Glabralysins, Potential New Î²-Pore-Forming Toxin Family Members from the Schistosomiasis Vector Snail Biomphalaria glabrata. Genes, 2020, 11, 65.	2.4	7
72	Divergence in environmental adaptation between terrestrial clades of the <i>Bacillus cereus</i> group. FEMS Microbiology Ecology, 2020, 97, .	2.7	7

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73	Identification of a mosquitocidal toxin from Bacillus thuringiensis using mass spectrometry. World Journal of Microbiology and Biotechnology, 2014, 30, 3273-3277.	3.6	6
74	Mining rare and ubiquitous toxin genes from a large collection of Bacillus thuringiensis strains. Journal of Invertebrate Pathology, 2014, 122, 6-9.	3.2	6
75	Novel genetic factors involved in resistance to <scp><i>B</i></scp><i>acillus thuringiensis</i> in <scp><i>P</i></scp><i>lutella xylostella</i>. Insect Molecular Biology, 2015, 24, 589-600.	2.0	6
76	The role of membrane-bound metal ions in toxicity of a human cancer cell-active pore-forming toxin Cry41Aa from Bacillus thuringiensis. Toxicon, 2019, 167, 123-133.	1.6	6
77	Expression and Crystallization of an N-Terminally Activated Form of the Bacillus thuringiensis Cry1Ca Toxin. Current Microbiology, 2001, 43, 371-373.	2.2	5
78	Co-Expression of the Mosquitocidal Toxins Cyt1Aa and Cry11Aa from Bacillus thuringiensis Subsp. israelensis in Asticcacaulis excentricus. Current Microbiology, 2007, 54, 58-62.	2.2	5
79	In vitro template-change PCR to create single crossover libraries: a case study with B. thuringiensis Cry2A toxins. Scientific Reports, 2016, 6, 23536.	3.3	5
80	Identification of Aedes aegypti specificity motifs in the N-terminus of the Bacillus thuringiensis Cry2Aa pesticidal protein. Journal of Invertebrate Pathology, 2020, 174, 107423.	3.2	5
81	Bt toxin not guilty by association. Nature Biotechnology, 2005, 23, 791-791.	17.5	3
82	Use of a simplified rapid size screen protocol for the detection of recombinant plasmids. Technical Tips Online, 1997, 2, 136-137.	0.2	2
83	Use of Redundant Exclusion PCR To Identify a Novel Bacillus thuringiensis Cry8 Toxin Gene from Pooled Genomic DNA. Applied and Environmental Microbiology, 2016, 82, 3808-3815.	3.1	2
84	Synthesis of novel heteroleptic delocalised cationic pyrazole gold complexes as potent HepG2 cytotoxic agents. Dalton Transactions, 2018, 47, 15338-15343.	3.3	2
85	Differential proteolytic activation of the <i>Bacillus thuringiensis</i> Cry41Aa parasporin modulates its anticancer effect. Biochemical Journal, 2019, 476, 3805-3816.	3.7	1
86	Identification of a Novel DNA Methyltransferase Activity from Bacillus thuringiensis. Current Microbiology, 2003, 47, 144-145.	2.2	0
87	Comparison of<i>Phenacoccus solenopsis</i>specimens from different regions of Pakistan using COI molecular barcoding (Hemiptera: Pseudococcidae). Annales De La Societe Entomologique De France, 2017, 53, 374-378.	0.9	0
88	Probing the Mechanism of Action of Cry41Aa on HepG2 through the Establishment of a Resistant Subline. Toxins, 2022, 14, 319.	3.4	0