

# Juan Luis Jurat-Fuentes

## List of Publications by Year in descending order

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87  
papers

4,628  
citations

87888

38  
h-index

110387

64  
g-index

94  
all docs

94  
docs citations

94  
times ranked

2792  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insecticidal RNA interference (RNAi) for control of potato pests. , 2022, , 219-229.		0
2	<scp>ABC</scp> transporter mutations in <scp>C</scp>ry<scp>1F</scp>â€resistant fall armyworm (<i>Spodoptera frugiperda</i>) do not result in altered susceptibility to selected small molecule pesticides. Pest Management Science, 2021, 77, 949-955.	3.4	13
3	Mechanisms of Resistance to Insecticidal Proteins from <i>Bacillus thuringiensis</i>. Annual Review of Entomology, 2021, 66, 121-140.	11.8	152
4	Selection for high levels of resistance to double-stranded RNA (dsRNA) in Colorado potato beetle (<i>Leptinotarsa decemlineata</i> Say) using non-transgenic foliar delivery. Scientific Reports, 2021, 11, 6523.	3.3	33
5	Whole genome comparisons reveal panmixia among fall armyworm (<i>Spodoptera frugiperda</i>) from diverse locations. BMC Genomics, 2021, 22, 179.	2.8	37
6	Expression and functional characterization in yeast of an endoglucanase from <i>Bacillus sonorensis</i> BD92 and its impact as feed additive in commercial broilers. International Journal of Biological Macromolecules, 2021, 176, 364-375.	7.5	1
7	Dockingâ€based generation of antibodies mimicking <scp>Cry1A</scp>/<scp>1B</scp> protein binding sites as potential insecticidal agents against diamondback moth (<i>Plutella xylostella</i>). Pest Management Science, 2021, 77, 4593-4606.	3.4	6
8	Genetic Screening to Identify Candidate Resistance Alleles to Cry1F Corn in Fall Armyworm Using Targeted Sequencing. Insects, 2021, 12, 618.	2.2	12
9	Genetic Knockouts Indicate That the ABCC2 Protein in the Bollworm <i>Helicoverpa zea</i> Is Not a Major Receptor for the Cry1Ac Insecticidal Protein. Genes, 2021, 12, 1522.	2.4	8
10	Novel real-time PCR based assays for differentiating fall armyworm strains using four single nucleotide polymorphisms. PeerJ, 2021, 9, e12195.	2.0	9
11	Adaptation by copy number variation increases insecticide resistance in the fall armyworm. Communications Biology, 2020, 3, 664.	4.4	41
12	First documentation of major Vip3Aa resistance alleles in field populations of <i>Helicoverpa zea</i> (Boddie) (Lepidoptera: Noctuidae) in Texas, USA. Scientific Reports, 2020, 10, 5867.	3.3	40
13	Reduced Membrane-Bound Alkaline Phosphatase Does Not Affect Binding of Vip3Aa in a <i>Heliothis virescens</i> Resistant Colony. Toxins, 2020, 12, 409.	3.4	13
14	Domain Shuffling between Vip3Aa and Vip3Ca: Chimera Stability and Insecticidal Activity against European, American, African, and Asian Pests. Toxins, 2020, 12, 99.	3.4	16
15	Identification and functional characterization of a $\beta$ -glucosidase from <i>Bacillus tequelensis</i> BD69 expressed in bacterial and yeast heterologous systems. PeerJ, 2020, 8, e8792.	2.0	8
16	The digestive system in <i>Zygentoma</i> as an insect model for high cellulase activity. PLoS ONE, 2019, 14, e0212505.	2.5	23
17	Mechanisms of resistance to commercially relevant entomopathogenic bacteria. Current Opinion in Insect Science, 2019, 33, 56-62.	4.4	34
18	Midgut metabolomic profiling of fall armyworm (<i>Spodoptera frugiperda</i>) with field-evolved resistance to Cry1F corn. Insect Biochemistry and Molecular Biology, 2019, 106, 1-9.	2.7	12

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19	Differential heliothine susceptibility to Cry1Ac associated with gut proteolytic activity. <i>Pesticide Biochemistry and Physiology</i> , 2019, 153, 1-8.	3.6	13
20	Decreased Cry1Ac activation by midgut proteases associated with Cry1Ac resistance in <i>Helicoverpa zea</i> . <i>Pest Management Science</i> , 2019, 75, 1099-1106.	3.4	30
21	Identification of a native <i>Bacillus thuringiensis</i> strain from Sri Lanka active against Dipel-resistant <i>Plutella xylostella</i> . <i>PeerJ</i> , 2019, 7, e7535.	2.0	15
22	Dominant point mutation in a tetraspanin gene associated with field-evolved resistance of cotton bollworm to transgenic Bt cotton. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11760-11765.	7.1	116
23	Domain III of Cry1Ac Is Critical to Binding and Toxicity against Soybean Looper ( <i>Chrysodeixis</i> ) Tj ETQq1 1 0.784314, rgBT /Overlock 10	3.4	7
24	The origin of the odorant receptor gene family in insects. <i>ELife</i> , 2018, 7, .	6.0	103
25	Transgenic Bt rice lines producing Cry1Ac, Cry2Aa or Cry1Ca have no detrimental effects on Brown Planthopper and Pond Wolf Spider. <i>Scientific Reports</i> , 2017, 7, 1940.	3.3	17
26	Activity of <i>Bacillus thuringiensis</i> Cry1Ie2, Cry2Ac7, Vip3Aa11 and Cry7Ab3 proteins against <i>Anticarsia gemmatalis</i> , <i>Chrysodeixis includens</i> and <i>Ceratoma trifurcata</i> . <i>Journal of Invertebrate Pathology</i> , 2017, 150, 70-72.	3.2	8
27	Mechanism and DNA-based detection of field-evolved resistance to transgenic Bt corn in fall armyworm ( <i>Spodoptera frugiperda</i> ). <i>Scientific Reports</i> , 2017, 7, 10877.	3.3	110
28	Herbicide and insect resistant Bt cotton pollen assessment finds no detrimental effects on adult honey bees. <i>Environmental Pollution</i> , 2017, 230, 479-485.	7.5	16
29	Specificity determinants for Cry insecticidal proteins: Insights from their mode of action. <i>Journal of Invertebrate Pathology</i> , 2017, 142, 5-10.	3.2	138
30	The TcEG1 beetle ( <i>Tribolium castaneum</i> ) cellulase produced in transgenic switchgrass is active at alkaline pH and auto-hydrolyzes biomass for increased cellobiose release. <i>Biotechnology for Biofuels</i> , 2017, 10, 230.	6.2	6
31	Comparative molecular analyses of invasive fall armyworm in Togo reveal strong similarities to populations from the eastern United States and the Greater Antilles. <i>PLoS ONE</i> , 2017, 12, e0181982.	2.5	105
32	Alpha-arylphorin is a mitogen in the <i>Heliothis virescens</i> midgut cell secretome upon Cry1Ac intoxication. <i>PeerJ</i> , 2017, 5, e3886.	2.0	13
33	Chromatographic fractionation and molecular mass characterization of <i>Cercidium praecox</i> (Brea) gum. <i>Journal of the Science of Food and Agriculture</i> , 2016, 96, 4345-4350.	3.5	15
34	Cry1F resistance among lepidopteran pests: a model for improved resistance management?. <i>Current Opinion in Insect Science</i> , 2016, 15, 116-124.	4.4	16
35	Intestinal regeneration as an insect resistance mechanism to entomopathogenic bacteria. <i>Current Opinion in Insect Science</i> , 2016, 15, 104-110.	4.4	39
36	Editorial overview: Pests and resistance: Resistance to Bt toxins in transgenic crops. <i>Current Opinion in Insect Science</i> , 2016, 15, iv-vi.	4.4	5

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37	Field-Evolved Mode 1 Resistance of the Fall Armyworm to Transgenic Cry1Fa-Expressing Corn Associated with Reduced Cry1Fa Toxin Binding and Midgut Alkaline Phosphatase Expression. <i>Applied and Environmental Microbiology</i> , 2016, 82, 1023-1034.	3.1	78
38	Identification of a New <i>cry1I</i> -Type Gene as a Candidate for Gene Pyramiding in Corn To Control <i>Ostrinia</i> Species Larvae. <i>Applied and Environmental Microbiology</i> , 2015, 81, 3699-3705.	3.1	19
39	Homologs to Cry toxin receptor genes in a de novo transcriptome and their altered expression in resistant <i>Spodoptera litura</i> larvae. <i>Journal of Invertebrate Pathology</i> , 2015, 129, 1-6.	3.2	11
40	The association of low-molecular-weight hydrophobic compounds with native casein micelles in bovine milk. <i>Journal of Dairy Science</i> , 2015, 98, 5155-5163.	3.4	23
41	MAPK Signaling Pathway Alters Expression of Midgut ALP and ABCC Genes and Causes Resistance to <i>Bacillus thuringiensis</i> Cry1Ac Toxin in Diamondback Moth. <i>PLoS Genetics</i> , 2015, 11, e1005124.	3.5	178
42	Generation of a Transcriptome in a Model Lepidopteran Pest, <i>Heliothis virescens</i> , Using Multiple Sequencing Strategies for Profiling Midgut Gene Expression. <i>PLoS ONE</i> , 2015, 10, e0128563.	2.5	18
43	Expression of an endoglucanase from <i>Tribolium castaneum</i> (TcEG1) in <i>Saccharomyces cerevisiae</i> . <i>Insect Science</i> , 2014, 21, 609-618.	3.0	7
44	Commercial Production of Entomopathogenic Bacteria. , 2014, , 415-435.		2
45	<i>Spodoptera frugiperda</i> (J.E. Smith) with field-evolved resistance to Bt maize are susceptible to Bt pesticides. <i>Journal of Invertebrate Pathology</i> , 2014, 122, 52-54.	3.2	32
46	Binding Site Concentration Explains the Differential Susceptibility of <i>Chilo suppressalis</i> and <i>Sesamia inferens</i> to Cry1A-Producing Rice. <i>Applied and Environmental Microbiology</i> , 2014, 80, 5134-5140.	3.1	17
47	Diversity of <i>Bacillus thuringiensis</i> Crystal Toxins and Mechanism of Action. <i>Advances in Insect Physiology</i> , 2014, 47, 39-87.	2.7	237
48	Fitness Costs Associated With Field-Evolved Resistance to Bt Maize in <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 2014, 107, 342-351.	1.8	70
49	Binding of vitamin A by casein micelles in commercial skim milk. <i>Journal of Dairy Science</i> , 2013, 96, 790-798.	3.4	38
50	The ATP-binding cassette transporter subfamily C member 2 in <i>Myxomorpha</i> larvae is a functional receptor for Cry toxins from <i>Bacillus thuringiensis</i> . <i>FEBS Journal</i> , 2013, 280, 1782-1794.	4.7	131
51	Fitness costs of sublethal exposure to <i>Bacillus thuringiensis</i> in <i>Helicoverpa armigera</i> : a carryover study on offspring. <i>Journal of Applied Entomology</i> , 2013, 137, 540-549.	1.8	23
52	Association of Cry1Ac Toxin Resistance in <i>Helicoverpa zea</i> (Boddie) with Increased Alkaline Phosphatase Levels in the Midgut Lumen. <i>Applied and Environmental Microbiology</i> , 2012, 78, 5690-5698.	3.1	45
53	Bt Crops: Past and Future. , 2012, , 283-304.		16
54	Bacterial Entomopathogens. , 2012, , 265-349.		76

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55	Physiology and Ecology of Host Defense Against Microbial Invaders. , 2012, , 461-480.		17
56	Transcriptome Profiling of the Intoxication Response of <i>Tenebrio molitor</i> Larvae to <i>Bacillus thuringiensis</i> Cry3Aa Protoxin. PLoS ONE, 2012, 7, e34624.	2.5	60
57	Comparative Proteomic Analysis of <i>Aedes aegypti</i> Larval Midgut after Intoxication with Cry11Aa Toxin from <i>Bacillus thuringiensis</i> . PLoS ONE, 2012, 7, e37034.	2.5	51
58	Binding Sites for <i>Bacillus thuringiensis</i> Cry2Ae Toxin on Heliothine Brush Border Membrane Vesicles Are Not Shared with Cry1A, Cry1F, or Vip3A Toxin. Applied and Environmental Microbiology, 2011, 77, 3182-3188.	3.1	95
59	Monitoring stem cell proliferation and differentiation in primary midgut cell cultures from <i>Heliothis virescens</i> larvae using flow cytometry. Differentiation, 2011, 81, 192-198.	1.9	18
60	Cryo-transmission electron tomography of native casein micelles from bovine milk. Journal of Dairy Science, 2011, 94, 5770-5775.	3.4	91
61	Reduced Levels of Membrane-Bound Alkaline Phosphatase Are Common to Lepidopteran Strains Resistant to Cry Toxins from <i>Bacillus thuringiensis</i> . PLoS ONE, 2011, 6, e17606.	2.5	139
62	Identification, cloning, and expression of a GHF9 cellulase from <i>Tribolium castaneum</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	2.0	40
63	Increased toxicity of <i>Bacillus thuringiensis</i> Cry3Aa against <i>Crioceris quatuordecimpunctata</i> , <i>Phaedon brassicae</i> and <i>Colaphellus bowringi</i> by a <i>Tenebrio molitor</i> cadherin fragment. Pest Management Science, 2011, 67, 1076-1081.	3.4	27
64	Characterization of a Cry1Ac toxin-binding alkaline phosphatase in the midgut from <i>Helicoverpa armigera</i> (HvALP) larvae. Journal of Insect Physiology, 2010, 56, 666-672.	2.0	54
65	Methods for discovery and characterization of cellulolytic enzymes from insects. Insect Science, 2010, 17, 184-198.	3.0	64
66	Susceptibility of Isofamilies of <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) to Cry1Ac and Cry1Fa Proteins of <i>Bacillus thuringiensis</i> . Southwestern Entomologist, 2010, 35, 409-415.	0.2	76
67	Prospecting for cellulolytic activity in insect digestive fluids. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 155, 145-154.	1.6	65
68	Characterization of cellulolytic activity from digestive fluids of <i>Dissosteira carolina</i> (Orthoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	1.6	34
69	A Novel <i>Tenebrio molitor</i> Cadherin Is a Functional Receptor for <i>Bacillus thuringiensis</i> Cry3Aa Toxin. Journal of Biological Chemistry, 2009, 284, 18401-18410.	3.4	102
70	Response of <i>Heliothis virescens</i> (Lepidoptera: Noctuidae) Strains to <i>Bacillus thuringiensis</i> Cry1Ac Incorporated Into Different Insect Artificial Diets. Journal of Economic Entomology, 2009, 102, 1599-1606.	1.8	20
71	<i>Tribolium castaneum</i> Larval Gut Transcriptome and Proteome: A Resource for the Study of the Coleopteran Gut. Journal of Proteome Research, 2009, 8, 3889-3898.	3.7	71
72	Cloning and characterization of the Cry1Ac-binding alkaline phosphatase (HvALP) from <i>Heliothis virescens</i> . Insect Biochemistry and Molecular Biology, 2009, 39, 294-302.	2.7	49

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73	Synergism of <i>Bacillus thuringiensis</i> toxins by a fragment of a toxin-binding cadherin. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13901-13906.	7.1	95
74	Analysis of midgut proteinases from <i>Bacillus thuringiensis</i> -susceptible and -resistant <i>Heliothis virescens</i> (Lepidoptera: Noctuidae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2007, 146, 139-146.	1.6	66
75	A proteomic approach to study Cry1Ac binding proteins and their alterations in resistant <i>Heliothis virescens</i> larvae. Journal of Invertebrate Pathology, 2007, 95, 187-191.	3.2	33
76	Identification of novel Cry1Ac binding proteins in midgut membranes from <i>Heliothis virescens</i> using proteomic analyses. Insect Biochemistry and Molecular Biology, 2007, 37, 189-201.	2.7	96
77	The <i>Heliothis virescens</i> Cadherin Protein Expressed in <i>Drosophila</i> S2 Cells Functions as a Receptor for <i>Bacillus thuringiensis</i> Cry1A but Not Cry1Fa Toxins. Biochemistry, 2006, 45, 9688-9695.	2.5	58
78	Cry toxin mode of action in susceptible and resistant <i>Heliothis virescens</i> larvae. Journal of Invertebrate Pathology, 2006, 92, 166-171.	3.2	97
79	Characterization of a Cry1Ac-receptor alkaline phosphatase in susceptible and resistant <i>Heliothis virescens</i> larvae. FEBS Journal, 2004, 271, 3127-3135.	0.2	242
80	Bt-R1a Extracellular Cadherin Repeat 12 Mediates <i>Bacillus thuringiensis</i> Cry1Ab Binding and Cytotoxicity. Journal of Biological Chemistry, 2004, 279, 28051-28056.	3.4	91
81	The HevCaLP Protein Mediates Binding Specificity of the Cry1A Class of <i>Bacillus thuringiensis</i> Toxins in <i>Heliothis virescens</i> . Biochemistry, 2004, 43, 14299-14305.	2.5	80
82	Fluorescent-based assays establish <i>Manduca sexta</i> Bt-R1a cadherin as a receptor for multiple <i>Bacillus thuringiensis</i> Cry1A toxins in <i>Drosophila</i> S2 cells. Insect Biochemistry and Molecular Biology, 2004, 34, 193-202.	2.7	51
83	Dual Resistance to <i>Bacillus thuringiensis</i> Cry1Ac and Cry2Aa Toxins in <i>Heliothis virescens</i> Suggests Multiple Mechanisms of Resistance. Applied and Environmental Microbiology, 2003, 69, 5898-5906.	3.1	81
84	Altered Glycosylation of 63- and 68-Kilodalton Microvillar Proteins in <i>Heliothis virescens</i> Correlates with Reduced Cry1 Toxin Binding, Decreased Pore Formation, and Increased Resistance to <i>Bacillus thuringiensis</i> Cry1 Toxins. Applied and Environmental Microbiology, 2002, 68, 5711-5717.	3.1	77
85	<i>Bacillus thuringiensis</i> Cry1Ac and Cry1Fa $\hat{\imath}$ -endotoxin binding to a novel 110 kDa aminopeptidase in <i>Heliothis virescens</i> is not N-acetylgalactosamine mediated. Insect Biochemistry and Molecular Biology, 2001, 31, 909-918.	2.7	51
86	Importance of Cry1 $\hat{\imath}$ -Endotoxin Domain II Loops for Binding Specificity in <i>Heliothis virescens</i> (L.). Applied and Environmental Microbiology, 2001, 67, 323-329.	3.1	99
87	Binding Analyses of <i>Bacillus thuringiensis</i> Cry $\hat{\imath}$ -Endotoxins Using Brush Border Membrane Vesicles of <i>Ostrinia nubilalis</i> . Applied and Environmental Microbiology, 2001, 67, 872-879.	3.1	79