

Michael Gurevitz

List of Publications by Year in descending order

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41
papers

2,104
citations

218677

26
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docs citations

42
times ranked

1173
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Anatomy of Scorpion Toxins Affecting Sodium Channels. <i>Toxin Reviews</i> , 1998, 17, 131-159.	1.5	168
2	Dynamic Diversification from a Putative Common Ancestor of Scorpion Toxins Affecting Sodium, Potassium, and Chloride Channels. <i>Journal of Molecular Evolution</i> , 1999, 48, 187-196.	1.8	129
3	Mapping the receptor site for \hat{I}^{\pm} -scorpion toxins on a Na ⁺ channel voltage sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15426-15431.	7.1	125
4	The insecticidal potential of scorpion \hat{I}^2 -toxins. <i>Toxicon</i> , 2007, 49, 473-489.	1.6	124
5	Identification of Amino Acid Residues in the Insect Sodium Channel Critical for Pyrethroid Binding. <i>Molecular Pharmacology</i> , 2005, 67, 513-522.	2.3	120
6	The Putative Bioactive Surface of Insect-selective Scorpion Excitatory Neurotoxins. <i>Journal of Biological Chemistry</i> , 1999, 274, 5769-5776.	3.4	93
7	Common Features in the Functional Surface of Scorpion \hat{I}^2 -Toxins and Elements That Confer Specificity for Insect and Mammalian Voltage-gated Sodium Channels. <i>Journal of Biological Chemistry</i> , 2005, 280, 5045-5053.	3.4	93
8	Functional Expression and Genetic Alteration of an Alpha Scorpion Neurotoxin. <i>Biochemistry</i> , 1996, 35, 10215-10222.	2.5	92
9	Structure-Function Map of the Receptor Site for \hat{I}^2 -Scorpion Toxins in Domain II of Voltage-gated Sodium Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 33641-33651.	3.4	76
10	Baculovirus-mediated expression of a scorpion depressant toxin improves the insecticidal efficacy achieved with excitatory toxins. <i>FEBS Letters</i> , 1998, 422, 132-136.	2.8	75
11	Mapping of scorpion toxin receptor sites at voltage-gated sodium channels. <i>Toxicon</i> , 2012, 60, 502-511.	1.6	70
12	Mapping the Interaction Site for a \hat{I}^2 -Scorpion Toxin in the Pore Module of Domain III of Voltage-gated Na ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2012, 287, 30719-30728.	3.4	67
13	Dissection of the Functional Surface of an Anti-insect Excitatory Toxin Illuminates a Putative "Hot Spot" Common to All Scorpion \hat{I}^2 -Toxins Affecting Na ⁺ Channels. <i>Journal of Biological Chemistry</i> , 2004, 279, 8206-8211.	3.4	65
14	Depressant insect selective neurotoxins from scorpion venom: Chemistry, action, and gene cloning. <i>Archives of Insect Biochemistry and Physiology</i> , 1993, 22, 55-73.	1.5	62
15	Membrane potential modulators: a thread of scarlet from plants to humans. <i>FASEB Journal</i> , 1998, 12, 1793-1796.	0.5	61
16	Functional expression of an alpha anti-insect scorpion neurotoxin in insect cells and lepidopterous larvae. <i>FEBS Letters</i> , 1995, 376, 181-184.	2.8	58
17	X-ray Structure and Mutagenesis of the Scorpion Depressant Toxin LqhIT2 Reveals Key Determinants Crucial for Activity and Anti-Insect Selectivity. <i>Journal of Molecular Biology</i> , 2007, 366, 586-601.	4.2	58
18	In Vitro Folding and Functional Analysis of an Anti-insect Selective Scorpion Depressant Neurotoxin Produced in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 1997, 10, 123-131.	1.3	56

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19	Further enhancement of baculovirus insecticidal efficacy with scorpion toxins that interact cooperatively. <i>FEBS Letters</i> , 2003, 537, 106-110.	2.8	54
20	Molecular analysis of the sea anemone toxin Av3 reveals selectivity to insects and demonstrates the heterogeneity of receptor site-3 on voltage-gated Na ⁺ channels. <i>Biochemical Journal</i> , 2007, 406, 41-48.	3.7	51
21	Elucidation of the Molecular Basis of Selective Recognition Uncovers the Interaction Site for the Core Domain of Scorpion I \pm -Toxins on Sodium Channels. <i>Journal of Biological Chemistry</i> , 2011, 286, 35209-35217.	3.4	44
22	Activation of cyanobacterial RuBP-carboxylase/oxygenase is facilitated by inorganic phosphate via two independent mechanisms. <i>FEBS Journal</i> , 2000, 267, 5995-6003.	0.2	36
23	Genetic Polymorphism and Expression of a Highly Potent Scorpion Depressant Toxin Enable Refinement of the Effects on Insect Na Channels and Illuminate the Key Role of Asn-58. <i>Biochemistry</i> , 2005, 44, 9179-9187.	2.5	36
24	Refined electrophysiological analysis suggests that a depressant toxin is a sodium channel opener rather than a blocker. <i>Life Sciences</i> , 1997, 61, 819-830.	4.3	31
25	Direct Evidence That Receptor Site-4 of Sodium Channel Gating Modifiers Is Not Dipped in the Phospholipid Bilayer of Neuronal Membranes. <i>Journal of Biological Chemistry</i> , 2006, 281, 20673-20679.	3.4	30
26	Nucleotide sequence and structure analysis of a cDNA encoding an alpha insect toxin from the scorpion <i>Leiurus quinquestriatus hebraeus</i> . <i>Toxicon</i> , 1991, 29, 1270-1272.	1.6	27
27	Scorpion neurotoxins: structure/function relationships and application in agriculture. <i>Pest Management Science</i> , 2000, 56, 472-474.	3.4	23
28	Pore-modulating toxins exploit inherent slow inactivation to block K ⁺ channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 18700-18709.	7.1	23
29	Insect Specific Neurotoxins from Scorpion Venom that Affect Sodium Current Inactivation. <i>Toxin Reviews</i> , 1994, 13, 25-43.	1.5	22
30	Substitutions in the Domain III Voltage-sensing Module Enhance the Sensitivity of an Insect Sodium Channel to a Scorpion I ² -Toxin. <i>Journal of Biological Chemistry</i> , 2011, 286, 15781-15788.	3.4	22
31	Isolation and characterization of the ccmM gene required by the cyanobacterium <i>Synechocystis</i> PCC6803 for inorganic carbon utilization. <i>Photosynthesis Research</i> , 1994, 39, 183-190.	2.9	21
32	Coupling between Residues on S4 and S1 Defines the Voltage-Sensor Resting Conformation in NaChBac. <i>Biophysical Journal</i> , 2010, 99, 456-463.	0.5	18
33	Characterization of the transcript for a depressant insect selective neurotoxin gene with an isolated cDNA clone from the scorpion <i>Buthotus judaicus</i> . <i>FEBS Letters</i> , 1990, 269, 229-232.	2.8	16
34	Advances in Molecular Genetics of Scorpion Neurotoxins. <i>Toxin Reviews</i> , 1994, 13, 65-100.	1.5	16
35	The drug ornidazole inhibits photosynthesis in a different mechanism described for protozoa and anaerobic bacteria. <i>Biochemical Journal</i> , 2016, 473, 4413-4426.	3.7	14
36	The specificity of Av3 sea anemone toxin for arthropods is determined at linker DI/SS2â€“S6Â in the pore module of target sodium channels. <i>Biochemical Journal</i> , 2014, 463, 271-277.	3.7	12

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37	Mapping the interaction surface of scorpion β -toxins with an insect sodium channel. <i>Biochemical Journal</i> , 2021, 478, 2843-2869.	3.7	7
38	Sequence variations at I260 and A1731 contribute to persistent currents in <i>Drosophila</i> sodium channels. <i>Neuroscience</i> , 2014, 268, 297-308.	2.3	3
39	Restoration of the wild-type locus in an RuBP carboxylase/oxygenase mutant of <i>Synechocystis</i> PCC 6803 via targeted gene recombination. <i>Molecular Genetics and Genomics</i> , 1992, 235, 247-252.	2.4	2
40	Charge substitutions at the voltage-sensing module of domain III enhance actions of site-3 and site-4 toxins on an insect sodium channel. <i>Insect Biochemistry and Molecular Biology</i> , 2021, 137, 103625.	2.7	2
41	Ferredoxin-mediated reduction of 2-nitrothiophene inhibits photosynthesis: mechanism and herbicidal potential. <i>Biochemical Journal</i> , 2020, 477, 1149-1158.	3.7	1