

Baltazar Becerril

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

1,760
citations

331670

21
h-index

276875

41
g-index

51
all docs

51
docs citations

51
times ranked

1543
citing authors

#	ARTICLE	IF	CITATIONS
1	Scorpion toxins specific for Na ⁺ channels. FEBS Journal, 1999, 264, 287-300.	0.2	597
2	Toxic peptides and genes encoding toxin α^3 of the Brazilian scorpions <i>Tityus bahiensis</i> and <i>Tityus stigmurus</i> . Biochemical Journal, 1996, 313, 753-760.	3.7	74
3	The change of the scFv into the Fab format improves the stability and in vivo toxin neutralization capacity of recombinant antibodies. Molecular Immunology, 2007, 44, 1307-1315.	2.2	70
4	Proteomic analysis of the venom from the fish eating coral snake <i>Micrurus surinamensis</i> : Novel toxins, their function and phylogeny. Proteomics, 2008, 8, 1919-1932.	2.2	70
5	Influence of the germline sequence on the thermodynamic stability and fibrillogenicity of human lambda 6 light chains. Proteins: Structure, Function and Bioinformatics, 2008, 72, 684-692.	2.6	61
6	A strategy for the generation of specific human antibodies by directed evolution and phage display. FEBS Journal, 2005, 272, 2591-2601.	4.7	59
7	Gene cloning and functional characterization of four novel antimicrobial-like peptides from scorpions of the family Vaejovidae. Peptides, 2012, 34, 290-295.	2.4	56
8	Transcriptome Analysis of Scorpion Species Belonging to the Vaejovis Genus. PLoS ONE, 2015, 10, e0117188.	2.5	56
9	Phospholipin, a novel heterodimeric phospholipase A2 from <i>Pandinus imperator</i> scorpion venom. FEBS Letters, 1999, 460, 447-450.	2.8	49
10	Thermodynamic and Kinetic Characterization of a Germ Line Human λ 6 Light-Chain Protein: The Relation between Unfolding and Fibrillogenesis. Journal of Molecular Biology, 2009, 386, 1153-1166.	4.2	43
11	A Single Mutation at the Sheet Switch Region Results in Conformational Changes Favoring λ 6 Light-Chain Fibrillogenesis. Journal of Molecular Biology, 2010, 396, 280-292.	4.2	43
12	Exploiting Cross-reactivity to Neutralize Two Different Scorpion Venoms with One Single Chain Antibody Fragment. Journal of Biological Chemistry, 2011, 286, 6143-6151.	3.4	43
13	Novel α -conotoxins from <i>Conus spurius</i> and the α -conotoxin EI share high affinity potentiation and low affinity inhibition of nicotinic acetylcholine receptors. FEBS Journal, 2007, 274, 3972-3985.	4.7	40
14	Peptides from the scorpion <i>Vaejovis punctatus</i> with broad antimicrobial activity. Peptides, 2015, 73, 51-59.	2.4	36
15	An Insect-Specific Toxin from <i>Centruroides noxius</i> Hoffmann. cDNA, Primary Structure, Three-Dimensional Model and Electrostatic Surface Potentials in Comparison with Other Toxin Variants. FEBS Journal, 1996, 242, 235-242.	0.2	33
16	The Dual α -Amidation System in Scorpion Venom Glands. Toxins, 2019, 11, 425.	3.4	31
17	A Single Mutation in Framework 2 of the Heavy Variable Domain Improves the Properties of a Diabody and a Related Single-Chain Antibody. Journal of Molecular Biology, 2012, 423, 337-350.	4.2	29
18	Broadening the neutralizing capacity of a family of antibody fragments against different toxins from Mexican scorpions. Toxicon, 2016, 119, 52-63.	1.6	26

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19	Isolation and characterization of a human antibody fragment specific for Ts1 toxin from <i>Tityus serrulatus</i> scorpion. <i>Immunology Letters</i> , 2011, 139, 73-79.	2.5	25
20	Isolation, chemical and functional characterization of several new K ⁺ -channel blocking peptides from the venom of the scorpion <i>Centruroides tecomanus</i> . <i>Toxicon</i> , 2016, 115, 1-12.	1.6	24
21	A novel human recombinant antibody fragment capable of neutralizing Mexican scorpion toxins. <i>Toxicon</i> , 2013, 76, 370-376.	1.6	23
22	Updating knowledge on new medically important scorpion species in Mexico. <i>Toxicon</i> , 2017, 138, 130-137.	1.6	20
23	Antibody BCF2 against scorpion toxin cn2 from <i>Centruroides noxius hoffmanni</i> : Primary structure and three-dimensional model as free fv fragment and complexed with its antigen. , 1999, 37, 130-143.		19
24	Structural Basis of Neutralization of the Major Toxic Component from the Scorpion <i>Centruroides noxius Hoffmanni</i> by a Human-derived Single-chain Antibody Fragment. <i>Journal of Biological Chemistry</i> , 2011, 286, 20892-20900.	3.4	19
25	Optimal Neutralization of <i>Centruroides noxius</i> Venom Is Understood through a Structural Complex between Two Antibody Fragments and the Cn2 Toxin. <i>Journal of Biological Chemistry</i> , 2016, 291, 1619-1630.	3.4	19
26	Generation of a Broadly Cross-Neutralizing Antibody Fragment against Several Mexican Scorpion Venoms. <i>Toxins</i> , 2019, 11, 32.	3.4	19
27	Bacterial expression, purification and functional characterization of a recombinant chimeric Fab derived from murine mAb BCF2 that neutralizes the venom of the scorpion <i>Centruroides noxius hoffmanni</i> . <i>Toxicon</i> , 2004, 43, 43-51.	1.6	18
28	Intraspecific variation of <i>Centruroides sculpturatus</i> scorpion venom from two regions of Arizona. <i>Archives of Biochemistry and Biophysics</i> , 2018, 638, 52-57.	3.0	17
29	Functional and immuno-reactive characterization of a previously undescribed peptide from the venom of the scorpion <i>Centruroides limpidus</i> . <i>Peptides</i> , 2017, 87, 34-40.	2.4	16
30	Two Novel Ergtoxins, Blockers of K ⁺ -channels, Purified from the Mexican Scorpion <i>Centruroides elegans elegans</i> . <i>Neurochemical Research</i> , 2008, 33, 1525-1533.	3.3	15
31	Precursor De13.1 from <i>Conus delessertii</i> defines the novel G gene superfamily. <i>Peptides</i> , 2013, 41, 17-20.	2.4	14
32	Site-directed Mutagenesis Reveals Regions Implicated in the Stability and Fiber Formation of Human λ 3r Light Chains. <i>Journal of Biological Chemistry</i> , 2015, 290, 2577-2592.	3.4	11
33	Identification of <i>Bacillus thuringiensis</i> Cry3Aa toxin domain II loop 1 as the binding site of <i>Tenebrio molitor</i> cadherin repeat CR12. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 59, 50-57.	2.7	9
34	Stabilizing an amyloidogenic λ 6 light chain variable domain. <i>FEBS Journal</i> , 2017, 284, 3702-3717.	4.7	9
35	Biochemical, electrophysiological and immunological characterization of the venom from <i>Centruroides baergi</i> , a new scorpion species of medical importance in Mexico. <i>Toxicon</i> , 2020, 184, 10-18.	1.6	9
36	Comparative assessment of the VH-VL and VL-VH orientations of single-chain variable fragments of scorpion toxin-neutralizing antibodies. <i>Molecular Immunology</i> , 2020, 122, 141-147.	2.2	8

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37	Evaluation of three different formats of a neutralizing single chain human antibody against toxin Cn2: Neutralization capacity versus thermodynamic stability. <i>Immunology Letters</i> , 2012, 143, 152-160.	2.5	7
38	Structural and functional characterization of NDBP-4 family antimicrobial peptides from the scorpion <i>Mesomexovis variegatus</i> . <i>Peptides</i> , 2021, 141, 170553.	2.4	7
39	The three-dimensional structure of the toxic peptide Cl13 from the scorpion <i>Centruroides limpidus</i> . <i>Toxicon</i> , 2020, 184, 158-166.	1.6	6
40	Full Neutralization of <i>Centruroides sculpturatus</i> Scorpion Venom by Combining Two Human Antibody Fragments. <i>Toxins</i> , 2021, 13, 708.	3.4	6
41	The venom of the scorpion <i>Centruroides limpidus</i> , which causes the highest number of stings in Mexico, is neutralized by two recombinant antibody fragments. <i>Molecular Immunology</i> , 2021, 137, 247-255.	2.2	5
42	Characterization of Four Medically Important Toxins from <i>Centruroides huichol</i> Scorpion Venom and Its Neutralization by a Single Recombinant Antibody Fragment. <i>Toxins</i> , 2022, 14, 369.	3.4	5
43	¹ H, ¹³ C and ¹⁵ N resonance assignment of 6ajL2(R25G), a highly fibrillogenic β VI light chain variable domain. <i>Biomolecular NMR Assignments</i> , 2007, 1, 159-161.	0.8	4
44	Simple approach for ranking structure determining residues. <i>PeerJ</i> , 2016, 4, e2136.	2.0	2
45	Recombinant Neutralizing Antibodies, A New Generation of Antivenoms. , 2015, , 139-159.		1
46	Antibody BCF2 against scorpion toxin cn2 from <i>Centruroides noxius hoffmanni</i> : Primary structure and three-dimensional model as free fv fragment and complexed with its antigen. <i>Proteins: Structure, Function and Bioinformatics</i> , 1999, 37, 130-143.	2.6	1
47	The Structural Determinants of the Immunoglobulin Light Chain Amyloid Aggregation. , 2015, , 1-28.		1
48	Recombinant Neutralizing Antibodies, A New Generation of Antivenoms. , 2013, , 1-19.		0