Libia Sanz

List of Publications by Year
in descending order

193 papers	12,064 citations	17440 63 h-index	33894 99 g-index
197 all docs	197 docs citations	197 times ranked	5308 citing authors

#	Article	IF	Citations
1	The king cobra genome reveals dynamic gene evolution and adaptation in the snake venom system. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20651-20656.	7.1	412
2	Snake venomics. Strategy and applications. Journal of Mass Spectrometry, 2007, 42, 1405-1414.	1.6	328
3	Venoms, venomics, antivenomics. FEBS Letters, 2009, 583, 1736-1743.	2.8	309
4	Snake Venomics of the Lancehead Pitviper <i>Bothrops asper</i>: Geographic, Individual, and Ontogenetic Variations. Journal of Proteome Research, 2008, 7, 3556-3571.	3.7	302
5	Seminal Plasma Proteins: What Role Do They Play?. American Journal of Reproductive Immunology, 2011, 66, 11-22.	1.2	284
6	Medically important differences in snake venom composition are dictated by distinct postgenomic mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 9205-9210.	7.1	253
7	Snake venom disintegrins: evolution of structure and function. Toxicon, 2005, 45, 1063-1074.	1.6	246
8	Snake Venomics of the Central American Rattlesnake <i>Crotalus simus</i> and the South American <i>Crotalus durissus</i> Complex Points to Neurotoxicity as an Adaptive Paedomorphic Trend along <i>Crotalus</i> Dispersal in South America. Journal of Proteome Research, 2010, 9, 528-544.	3.7	206
9	Snake Venomics of African Spitting Cobras: Toxin Composition and Assessment of Congeneric Cross-Reactivity of the Pan-African EchiTAb-Plus-ICP Antivenom by Antivenomics and Neutralization Approaches. Journal of Proteome Research, 2011, 10, 1266-1280.	3.7	191
10	Boar spermatozoa in the oviduct. Theriogenology, 2005, 63, 514-535.	2.1	184
11	Snake population venomics and antivenomics of Bothrops atrox: Paedomorphism along its transamazonian dispersal and implications of geographic venom variability on snakebite management. Journal of Proteomics, 2011, 74, 510-527.	2.4	181
12	Snake venomics and antivenomics: Proteomic tools in the design and control of antivenoms for the treatment of snakebite envenoming. Journal of Proteomics, 2009, 72, 165-182.	2.4	180
13	Integrated â€œomicsâ€•profiling indicates that miRNAs are modulators of the ontogenetic venom composition shift in the Central American rattlesnake, Crotalus simus simus. BMC Genomics, 2013, 14, 234.	2.8	164
14	Snake venomics and antivenomics of Bothrops atrox venoms from Colombia and the Amazon regions of Brazil, PerÃº and Ecuador suggest the occurrence of geographic variation of venom phenotype by a trend towards paedomorphism. Journal of Proteomics, 2009, 73, 57-78.	2.4	155
15	Snake venomics and antivenomics of Crotalus durissus subspecies from Brazil: Assessment of geographic variation and its implication on snakebite management. Journal of Proteomics, 2010, 73, 1758-1776.	2.4	149
16	Venom Proteomes of Closely RelatedSistrurusRattlesnakes with Divergent Diets. Journal of Proteome Research, 2006, 5, 2098-2112.	3.7	148
17	Exploring the Venom Proteome of the Western Diamondback Rattlesnake, <i>Crotalus atrox</i>, via Snake Venomics and Combinatorial Peptide Ligand Library Approaches. Journal of Proteome Research, 2009, 8, 3055-3067.	3.7	143
18	Snake Venomics and Antivenomics of the Arboreal Neotropical Pitvipers Bothriechis lateralis and Bothriechis schlegelii. Journal of Proteome Research, 2008, 7, 2445-2457.	3.7	137

#	Article	IF	Citations
19	Venom variability and envenoming severity outcomes of the Crotalus scutulatus scutulatus (Mojave) Tj ETQq1 1 0.784314 rgBT /Overlo	2.4	133
20	Snake venomics and venom gland transcriptomic analysis of Brazilian coral snakes, Micrurus altirostris and M. corallinus. Journal of Proteomics, 2011, 74, 1795-1809.	2.4	126
21	The crystal structures of two spermadhesins reveal the CUB domain fold. Nature Structural Biology, 1997, 4, 783-788.	9.7	124
22	Combined snake venomics and venom gland transcriptomic analysis of the ocellated carpet viper, Echis ocellatus. Journal of Proteomics, 2009, 71, 609-623.	2.4	122
23	Snake Venomics of the Lesser Antillean Pit Vipers <i>Bothrops caribbaeus</i> and <i>Bothrops lanceolatus</i>: Correlation with Toxicological Activities and Immunoreactivity of a Heterologous Antivenom. Journal of Proteome Research, 2008, 7, 4396-4408.	3.7	116
24	Snake venomics: Comparative analysis of the venom proteomes of the Tunisian snakesCerastes cerastes, Cerastes vipera andMacrovipera lebetina. Proteomics, 2005, 5, 4223-4235.	2.2	115
25	Snake venomics of the South and Central American Bushmasters. Comparison of the toxin composition of Lachesis muta gathered from proteomic versus transcriptomic analysis. Journal of Proteomics, 2008, 71, 46-60.	2.4	114
26	Snake venomics: Characterization of protein families inSistrurus barbouri venom by cysteine mapping,N-terminal sequencing, and tandem mass spectrometry analysis. Proteomics, 2004, 4, 327-338.	2.2	113
27	Combined venomics, venom gland transcriptomics, bioactivities, and antivenomics of two Bothrops jararaca populations from geographic isolated regions within the Brazilian Atlantic rainforest. Journal of Proteomics, 2016, 135, 73-89.	2.4	110
28	Preclinical Evaluation of the Efficacy of Antivenoms for Snakebite Envenoming: State-of-the-Art and Challenges Ahead. Toxins, 2017, 9, 163.	3.4	109
29	Snake Venomics ofBitisSpecies Reveals Large Intragenus Venom Toxin Composition Variation:Â Application to Taxonomy of Congeneric Taxa. Journal of Proteome Research, 2007, 6, 2732-2745.	3.7	108
30	Influence of Porcine Spermadhesins on the Susceptibility of Boar Spermatozoa to High Dilution1. Biology of Reproduction, 2003, 69, 640-646.	2.7	106
31	Venomic and Antivenomic Analyses of the Central American Coral Snake,<i>Micrurus nigrocinctus</i>(Elapidae). Journal of Proteome Research, 2011, 10, 1816-1827.	3.7	105
32	Proteomic analysis of ontogenetic and diet-related changes in venom composition of juvenile and adult Dusky Pigmy rattlesnakes (Sistrurus miliarius barbouri). Journal of Proteomics, 2011, 74, 2169-2179.	2.4	105
33	Isolation and characterization of heparin- and phosphorylcholine-binding proteins of boar and stallion seminal plasma. Primary structure of porcine pB1. FEBS Letters, 1997, 407, 201-206.	2.8	101
34	Snake Venomics of Bitis gabonica gabonica. Protein Family Composition, Subunit Organization of Venom Toxins, and Characterization of Dimeric Disintegrins Bitisgabonin-1 and Bitisgabonin-2. Journal of Proteome Research, 2007, 6, 326-336.	3.7	100
35	Isolation and biochemical characterization of heparin-binding proteins from boar seminal plasma: A dual role for spermadhesins in fertilization. Molecular Reproduction and Development, 1993, 35, 37-43.	2.0	99
36	Venomous snakes of Costa Rica: Biological and medical implications of their venom proteomic profiles analyzed through the strategy of snake venomics. Journal of Proteomics, 2014, 105, 323-339.	2.4	97

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37	Quantitation of boar spermadhesins in accessory sex gland fluids and on the surface of epididymal, ejaculated and capacitated spermatozoa. Biochimica Et Biophysica Acta - General Subjects, 1994, 1200, 48-54.	2.4	96
38	Profiling the venom gland transcriptomes of Costa Rican snakes by 454 pyrosequencing. BMC Genomics, 2011, 12, 259.	2.8	96
39	Cryosurvival and In Vitro Fertilizing Capacity Postthaw Is Improved When Boar Spermatozoa Are Frozen in the Presence of Seminal Plasma From Good Freezer Boars. Journal of Andrology, 2007, 28, 689-697.	2.0	94
40	Venomics of New World pit vipers: Genus-wide comparisons of venom proteomes across Agkistrodon. Journal of Proteomics, 2014, 96, 103-116.	2.4	94
41	Snake venomics of the Armenian mountain vipers Macrovipera lebetina obtusa and Vipera raddei. Journal of Proteomics, 2008, 71, 198-209.	2.4	91
42	Venoms of Micrurus coral snakes: Evolutionary trends in compositional patterns emerging from proteomic analyses. Toxicon, 2016, 122, 7-25.	1.6	89
43	Boar Spermadhesin AWN-1. Oligosaccharide and Zona Pellucida Binding Characteristics. FEBS Journal, 1995, 230, 329-336.	0.2	85
44	Sperm Coating Mechanism from the 1.8 Ã… Crystal Structure of PDC-109-Phosphorylcholine Complex. Structure, 2002, 10, 505-514.	3.3	84
45	Integrated Venomics and Venom Gland Transcriptome Analysis of Juvenile and Adult Mexican Rattlesnakes <i>Crotalus simus</i>, <i>C. tzabcan</i>, and <i>C. culminatus</i> Revealed miRNA-modulated Ontogenetic Shifts. Journal of Proteome Research, 2017, 16, 3370-3390.	3.7	82
46	Crystal Structure of a Prostate Kallikrein Isolated from Stallion Seminal Plasma: A Homologue of Human PSA. Journal of Molecular Biology, 2002, 322, 325-337.	4.2	81
47	Snake Population Venomics: Proteomics-Based Analyses of Individual Variation Reveals Significant Gene Regulation Effects on Venom Protein Expression in Sistrurus Rattlesnakes. Journal of Molecular Evolution, 2009, 68, 113-125.	1.8	81
48	The 2.4 Ã… resolution crystal structure of boar seminal plasma PSP-I/PSP-II: a zona pellucida-binding glycoprotein heterodimer of the spermadhesin family built by a CUB domain architecture. Journal of Molecular Biology, 1997, 274, 635-649.	4.2	80
49	The complete primary structure of the spermadhesin AWN, a zona pellucida-binding protein isolated from boar spermatozoa. FEBS Letters, 1992, 300, 213-218.	2.8	79
50	Tissue Localization and Extracellular Matrix Degradation by PI, PII and PIII Snake Venom Metalloproteinases: Clues on the Mechanisms of Venom-Induced Hemorrhage. PLoS Neglected Tropical Diseases, 2015, 9, e0003731.	3.0	79
51	Snake Venomics of Central American Pitvipers: Clues for Rationalizing the Distinct Envenomation Profiles of Atropoides nummifer and Atropoides picadoi. Journal of Proteome Research, 2008, 7, 708-719.	3.7	77
52	Snake venomics and antivenomics of Bothrops colombiensis, a medically important pitviper of the Bothrops atrox-asper complex endemic to Venezuela: Contributing to its taxonomy and snakebite management. Journal of Proteomics, 2009, 72, 227-240.	2.4	76
53	Snake venomics across genus Lachesis. Ontogenetic changes in the venom composition of Lachesis stenophrys and comparative proteomics of the venoms of adult Lachesis melanocephala and Lachesis acrochorda. Journal of Proteomics, 2012, 77, 280-297.	2.4	76
54	Snake venomics of the Brazilian pitvipers Bothrops cotiara and Bothrops fonsecai. Identification of taxonomy markers. Journal of Proteomics, 2008, 71, 473-485.	2.4	73

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55	Immunological profile of antivenoms: Preclinical analysis of the efficacy of a polyspecific antivenom through antivenomics and neutralization assays. Journal of Proteomics, 2014, 105, 340-350.	2.4	73
56	Isolation of an acidic phospholipase A2 from the venom of the snake Bothrops asper of Costa Rica: Biochemical and toxicological characterizationâ˜†. Biochimie, 2010, 92, 273-283.	2.6	72
57	Conformational Features and Thermal Stability of Bovine Seminal Plasma Protein PDC-109 Oligomers and Phosphorylcholine-Bound Complexes. FEBS Journal, 1997, 250, 735-744.	0.2	71
58	Snake venomics and antivenomics of Protobothrops mucrosquamatus and Viridovipera stejnegeri from Taiwan: Keys to understand the variable immune response in horses. Journal of Proteomics, 2012, 75, 5628-5645.	2.4	70
59	Comparative venomics of the Prairie Rattlesnake (Crotalus viridis viridis) from Colorado: Identification of a novel pattern of ontogenetic changes in venom composition and assessment of the immunoreactivity of the commercial antivenom CroFabÂ®. Journal of Proteomics, 2015, 121, 28-43.	2.4	70
60	Phylovenomics of Daboia russelii across the Indian subcontinent. Bioactivities and comparative in vivo neutralization and in vitro third-generation antivenomics of antivenoms against venoms from India, Bangladesh and Sri Lanka. Journal of Proteomics, 2019, 207, 103443.	2.4	67
61	Assessing the preclinical efficacy of antivenoms: From the lethality neutralization assay to antivenomics. Toxicon, 2013, 69, 168-179.	1.6	66
62	The primary structure of BSP-30K, a major lipid-, gelatin-, and heparin-binding glycoprotein of bovine seminal plasma. FEBS Letters, 1996, 399, 147-152.	2.8	65
63	Impact of Regional Variation in <i>Bothrops asper</i> Snake Venom on the Design of Antivenoms: Integrating Antivenomics and Neutralization Approaches. Journal of Proteome Research, 2010, 9, 564-577.	3.7	65
64	Boar spermadhesin PSP-II: Location of posttranslational modifications, heterodimer formation with PSP-I glycoforms and effect of dimerization on the ligand-binding capabilities of the subunits. FEBS Letters, 1995, 365, 179-182.	2.8	64
65	Phylogeny-Based Comparative Analysis of Venom Proteome Variation in a Clade of Rattlesnakes (Sistrurus sp.). PLoS ONE, 2013, 8, e67220.	2.5	64
66	When one phenotype is not enough: divergent evolutionary trajectories govern venom variation in a widespread rattlesnake species. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182735.	2.6	64
67	Exposure to the seminal plasma of different portions of the boar ejaculate modulates the survival of spermatozoa cryopreserved in MiniFlatPacks. Theriogenology, 2009, 71, 662-675.	2.1	63
68	Combined snake venomics and venom gland transcriptomic analysis of Bothropoides pauloensis. Journal of Proteomics, 2012, 75, 2707-2720.	2.4	63
69	Localization and structural characterization of an oligosaccharide O-linked to bovine PDC-109 Quantitation of the glycoprotein in seminal plasma and on the surface of ejaculated and capacitated spermatozoa. FEBS Letters, 1994, 350, 203-206.	2.8	61
70	Constructing comprehensive venom proteome reference maps for integrative venomics. Expert Review of Proteomics, 2015, 12, 557-573.	3.0	61
71	Characterization of two glycosylated boar spermadhesins. FEBS Journal, 1993, 218, 719-725.	0.2	59
72	A Procedure for the Large-Scale Isolation of Major Bovine Seminal Plasma Proteins. Protein Expression and Purification, 1996, 8, 48-56.	1.3	59

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73	Snake Venomics of <i>Crotalus tigris</i>: The Minimalist Toxin Arsenal of the Deadliest Neartic Rattlesnake Venom. Evolutionary Clues for Generating a Pan-Specific Antivenom against Crotalid Type II Venoms. Journal of Proteome Research, 2012, 11, 1382-1390.	3.7	59
74	Snake venomics of Micrurus alleni and Micrurus mosquitensis from the Caribbean region of Costa Rica reveals two divergent compositional patterns in New World elapids. Toxicon, 2015, 107, 217-233.	1.6	59
75	Snake venomics of two poorly known Hydrophiinae: Comparative proteomics of the venoms of terrestrial Toxicocalamus longissimus and marine Hydrophis cyanocinctus. Journal of Proteomics, 2012, 75, 4091-4101.	2.4	57
76	Snake venomics of Lachesis muta rhombeata and genus-wide antivenomics assessment of the paraspecific immunoreactivity of two antivenoms evidence the high compositional and immunological conservation across Lachesis. Journal of Proteomics, 2013, 89, 112-123.	2.4	56
77	What killed Karl Patterson Schmidt? Combined venom gland transcriptomic, venomic and antivenomic analysis of the South African green tree snake (the boomslang), Dispholidus typus. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 814-823.	2.4	56
78	Molecular Cloning of Disintegrin-like Transcript BA-5A from a Bitis arietans Venom Gland cDNA Library: A Putative Intermediate in the Evolution of the Long-Chain Disintegrin Bitistatin. Journal of Molecular Evolution, 2006, 63, 142-152.	1.8	55
79	Spermadhesin PSP-I/PSP-II heterodimer induces migration of polymorphonuclear neutrophils into the uterine cavity of the sow. Journal of Reproductive Immunology, 2010, 84, 57-65.	1.9	55
80	Snake Venomics of <i>Bothriechis nigroviridis</i> Reveals Extreme Variability among Palm Pitviper Venoms: Different Evolutionary Solutions for the Same Trophic Purpose. Journal of Proteome Research, 2010, 9, 4234-4241.	3.7	55
81	Isolation and biochemical characterization of a zona pellucida-binding glycoprotein of boar spermatozoa. FEBS Letters, 1991, 280, 183-186.	2.8	54
82	PSPâ€I/PSPâ€II spermadhesin exert a decapacitation effect on highly extended boar spermatozoa. Journal of Developmental and Physical Disabilities, 2009, 32, 505-513.	3.6	54
83	Boar spermadhesins AQN-1 and AWN are sperm-associated acrosin inhibitor acceptor proteins. FEBS Letters, 1992, 300, 63-66.	2.8	53
84	Major proteins of boar seminal plasma as a tool for biotechnological preservation of spermatozoa. Theriogenology, 2008, 70, 1352-1355.	2.1	52
85	Omics Meets Biology: Application to the Design and Preclinical Assessment of Antivenoms. Toxins, 2014, 6, 3388-3405.	3.4	52
86	PIVL, a new serine protease inhibitor from Macrovipera lebetina transmediterranea venom, impairs motility of human glioblastoma cells. Matrix Biology, 2013, 32, 52-62.	3.6	51
87	Immunolocalization and Quantitation of Acidic Seminal Fluid Protein (aSFP) in Ejaculated, Swim-up, and Capacitated Bull Spermatozoa. Biological Chemistry Hoppe-Seyler, 1994, 375, 457-462.	1.4	50
88	YPI1 and SDS22 Proteins Regulate the Nuclear Localization and Function of Yeast Type 1 Phosphatase Glc7. Journal of Biological Chemistry, 2007, 282, 3282-3292.	3.4	50
89	Antivenomic Assessment of the Immunological Reactivity of EchiTAb-Plus-ICP, an Antivenom for the Treatment of Snakebite Envenoming in Sub-Saharan Africa. American Journal of Tropical Medicine and Hygiene, 2010, 82, 1194-1201.	1.4	50
90	Venomics and antivenomics of Bothrops erythromelas from five geographic populations within the Caatinga ecoregion of northeastern Brazil. Journal of Proteomics, 2015, 114, 93-114.	2.4	50

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91	KTS and RTS-Disintegrins: Anti-Angiogenic Viper Venom Peptides Specifically Targeting the α1β 1 Integrin. Current Pharmaceutical Design, 2007, 13, 2853-2859.	1.9	49
92	Carbohydrate-and heparin-binding proteins in mammalian fertilization. Andrologia, 1995, 27, 303-324.	2.1	48
93	Transcriptomics-guided bottom-up and top-down venomics of neonate and adult specimens of the arboreal rear-fanged Brown Treesnake, Boiga irregularis, from Guam. Journal of Proteomics, 2018, 174, 71-84.	2.4	47
94	The complete primary structure of the boar spermadhesin AQN-1, a carbohydrate-binding protein involved in fertilization. FEBS Journal, 1992, 205, 645-652.	0.2	46
95	Venomics and antivenomics profiles of North African Cerastes cerastes and C. vipera populations reveals a potentially important therapeutic weakness. Journal of Proteomics, 2012, 75, 2442-2453.	2.4	46
96	Identification by Affinity Chromatography of Boar Sperm Membrane-Associated Proteins Bound to Immobilized Porcine Zona Pellucida. Mapping of the Phosphorylethanolamine-Binding Region of Spermadhesin AWN. Biological Chemistry Hoppe-Seyler, 1995, 376, 733-738.	1.4	45
97	Isolation and biological characterization of Batx-I, a weak hemorrhagic and fibrinogenolytic PI metalloproteinase from Colombian Bothrops atrox venom. Toxicon, 2010, 56, 936-943.	1.6	45
98	Monoclonal Antibodies against Boar Sperm Zona Pellucida-Binding Protein AWN-1. Characterization of a Continuous Antigenic Determinant and Immunolocalization Of AWN Epitopes in Inseminated Sows1. Biology of Reproduction, 1997, 57, 735-742.	2.7	44
99	Immunolocalization and Possible Functional Role of PSP-I/PSP-II Heterodimer in Highly Extended Boar Spermatozoa. Journal of Andrology, 2006, 27, 766-773.	2.0	44
100	Molecular cloning of disintegrins from Cerastes vipera and Macrovipera lebetina transmediterranea venom gland cDNA libraries: insight into the evolution of the snake venom integrin-inhibition system. Biochemical Journal, 2006, 395, 385-392.	3.7	44
101	Venomic Analysis of the Poorly Studied Desert Coral Snake, Micrurus tschudii tschudii, Supports the 3FTx/PLA2 Dichotomy across Micrurus Venoms. Toxins, 2016, 8, 178.	3.4	44
102	Proteomic analysis of venom variability and ontogeny across the arboreal palm-pitvipers (genus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	2.4	44
103	The amino acid sequence of AQN-3, a carbohydrate-binding protein isolated from boar sperm Location of disulphide bridges. FEBS Letters, 1991, 291, 33-36.	2.8	43
104	Characterization of AWN-1 glycosylated isoforms helps define the zona pellucida and serine proteinase inhibitor-binding region on boar spermadhesins. FEBS Letters, 1993, 334, 37-40.	2.8	43
105	Characterisation of the conformational and quaternary structure-dependent heparin-binding region of bovine seminal plasma protein PDC-109. FEBS Letters, 1999, 444, 260-264.	2.8	43
106	Dissecting the Protective Effect of the Seminal Plasma Spermadhesin PSP-I/PSP-II on Boar Sperm Functionality. Journal of Andrology, 2006, 27, 434-443.	2.0	43
107	Studies on the venom proteome of Bothrops asper: Perspectives and applications. Toxicon, 2009, 54, 938-948.	1.6	43
108	Crystal structure of acidic seminal fluid protein (aSFP) at 1.9 Ã… resolution: a bovine polypeptide of the spermadhesin family. Journal of Molecular Biology, 1997, 274, 650-660.	4.2	42

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109	Exploring the venom proteome of the African puff adder, Bitis arietans, using a combinatorial peptide ligand library approach at different pHs. Journal of Proteomics, 2010, 73, 932-942.	2.4	42
110	Primary Structure of Stallion Seminal Plasma Protein HSP-7, a Zona-Pellucida-Binding Protein of the Spermadhesin Family. FEBS Journal, 1996, 242, 636-640.	0.2	41
111	cDNA Cloning and Functional Expression of Jerdostatin, a Novel RTS-disintegrin from Trimeresurus jerdonii and a Specific Antagonist of the Î±1Î²1 Integrin. Journal of Biological Chemistry, 2005, 280, 40714-40722.	3.4	41
112	Crystal structure and statistical coupling analysis of highly glycosylated peroxidase from royal palm tree (Roystonea regia). Journal of Structural Biology, 2010, 169, 226-242.	2.8	41
113	Unusual Stability of Messenger RNA in Snake Venom Reveals Gene Expression Dynamics of Venom Replenishment. PLoS ONE, 2012, 7, e41888.	2.5	41
114	Structural characterization of the oligosaccharide chains of native and crystallized boar seminal plasma spermadhesin PSP-I and PSP-II glycoforms. FEBS Journal, 1999, 265, 703-718.	0.2	39
115	Cloning and characterization of an antibacterial l-amino acid oxidase from Crotalus durissus cumanensis venom. Toxicon, 2013, 64, 1-11.	1.6	39
116	Two color morphs of the pelagic yellow-bellied sea snake, Pelamis platura, from different locations of Costa Rica: Snake venomics, toxicity, and neutralization by antivenom. Journal of Proteomics, 2014, 103, 137-152.	2.4	39
117	Improving the fertilizing ability of sex sorted boar spermatozoa. Theriogenology, 2007, 68, 771-778.	2.1	37
118	Isolation and Biochemical Characterization of Stallion Seminalâ€plasma Proteins. Reproduction in Domestic Animals, 1994, 29, 411-426.	1.4	36
119	The disulfide bond pattern of catrocollastatin C, a disintegrinâ€like/cysteineâ€rich protein isolated from <i>Crotalus atrox</i> venom. Protein Science, 2000, 9, 1365-1373.	7.6	34
120	New insights into the phylogeographic distribution of the 3FTx/PLA2 venom dichotomy across genus Micrurus in South America. Journal of Proteomics, 2019, 200, 90-101.	2.4	34
121	Does Seminal Plasma PSPâ€I/PSPâ€II Spermadhesin Modulate the Ability of Boar Spermatozoa to Penetrate Homologous Oocytes In Vitro?. Journal of Andrology, 2004, 25, 1004-1012.	2.0	33
122	Glycosylated Boar Spermadhesin AWN-1 Isoforms. Biological Origin, Structural Characterization by Lectin Mapping, Localization of O-Glycosylation Sites, and Effect of Glycosylation on Ligand Binding. Biological Chemistry Hoppe-Seyler, 1994, 375, 667-674.	1.4	32
123	Effect of glycosylation on the heparin-binding capability of boar and stallion seminal plasma proteins. Journal of Chromatography A, 1995, 711, 167-173.	3.7	31
124	Isolation and biochemical characterization of two isoforms of a boar sperm zona pellucida-binding protein. BBA - Proteins and Proteomics, 1992, 1119, 127-132.	2.1	30
125	Distinct Effects of Boar Seminal Plasma Fractions Exhibiting Different Protein Profiles on the Functionality of Highly Diluted Boar Spermatozoa. Reproduction in Domestic Animals, 2009, 44, 200-205.	1.4	30
126	Snake venomics of Macrovipera mauritanica from Morocco, and assessment of the para-specific immunoreactivity of an experimental monospecific and a commercial antivenoms. Journal of Proteomics, 2012, 75, 2431-2441.	2.4	30

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127	Influence of seminal plasma PSP-I/PSP-II spermadhesin on pig gamete interaction. Zygote, 2005, 13, 11-16.	1.1	29
128	Is Hybridization a Source of Adaptive Venom Variation in Rattlesnakes? A Test, Using a Crotalus scutulatus Ã— viridis Hybrid Zone in Southwestern New Mexico. Toxins, 2016, 8, 188.	3.4	29
129	Mapping the heparin-binding domain of boar spermadhesins. FEBS Letters, 1996, 379, 207-211.	2.8	28
130	Insights into the structural basis of the pH-dependent dimerâ€“tetramer equilibrium through crystallographic analysis of recombinant<i>Diocleinae</i>lectins. Biochemical Journal, 2008, 409, 417-428.	3.7	28
131	Immunohistochemical localization of spermadhesin AWN in the porcine male genital tract. Cell and Tissue Research, 1995, 282, 175-179.	2.9	27
132	Isolation of two novel mannan- and l-fucose-binding lectins from the green alga Enteromorpha prolifera: biochemical characterization of EPL-2. Archives of Biochemistry and Biophysics, 2003, 415, 245-250.	3.0	26
133	Thermodynamic characterization of the palm tree Roystonea regia peroxidase stability. Biochimie, 2008, 90, 1737-1749.	2.6	26
134	Boar Spermadhesins AQN-1 and AQN-3: Oligosaccharide and Zona Pellucida Binding Characteristics. Biological Chemistry Hoppe-Seyler, 1996, 377, 521-528.	1.4	25
135	cDNA cloning and 1.75â€ƒÃ… crystal structure determination of PPL2, an endochitinase and N-acetylglucosamine-binding hemagglutinin from Parkia platycephala seeds. FEBS Journal, 2006, 273, 3962-3974.	4.7	25
136	Quality of boar spermatozoa from the sperm-peak portion of the ejaculate after simplified freezing in MiniFlatpacks compared to the remaining spermatozoa of the sperm-rich fraction. Theriogenology, 2011, 75, 1175-1184.	2.1	25
137	Cross-reactivity, antivenomics, and neutralization of toxic activities of Lachesis venoms by polyspecific and monospecific antivenoms. PLoS Neglected Tropical Diseases, 2017, 11, e0005793.	3.0	25
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