Marco Pirazzini

List of Publications by Year
in descending order

49 papers	2,415 citations	236925 25 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	1860 citing authors

#	Article	IF	Citations
1	Latrotoxin-Induced Neuromuscular Junction Degeneration Reveals Urocortin 2 as a Critical Contributor to Motor Axon Terminal Regeneration. International Journal of Molecular Sciences, 2022, 23, 1186.	4.1	1
2	Models and methods to study Schwann cells. Journal of Anatomy, 2022, 241, 1235-1258.	1.5	10
3	Toxicology and pharmacology of botulinum and tetanus neurotoxins: an update. Archives of Toxicology, 2022, 96, 1521-1539.	4.2	22
4	Detection of VAMP Proteolysis by Tetanus and Botulinum Neurotoxin Type B In Vivo with a Cleavage-Specific Antibody. International Journal of Molecular Sciences, 2022, 23, 4355.	4.1	6
5	Tetanus and tetanus neurotoxin: From peripheral uptake to central nervous tissue targets. Journal of Neurochemistry, 2021, 158, 1244-1253.	3.9	21
6	Paper-based electrochemical peptide sensor for on-site detection of botulinum neurotoxin serotype A and C. Biosensors and Bioelectronics, 2021, 183, 113210.	10.1	39
7	Exceptionally potent human monoclonal antibodies are effective for prophylaxis and treatment of tetanus in mice. Journal of Clinical Investigation, 2021, 131, .	8.2	8
8	Novel Small Molecule Inhibitors That Prevent the Neuroparalysis of Tetanus Neurotoxin. Pharmaceuticals, 2021, 14, 1134.	3.8	3
9	Skeletal muscle mTORC1 regulates neuromuscular junction stability. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 208-225.	7.3	43
10	Polyglutamine-Expanded Androgen Receptor Alteration of Skeletal Muscle Homeostasis and Myonuclear Aggregation Are Affected by Sex, Age and Muscle Metabolism. Cells, 2020, 9, 325.	4.1	21
11	Molecular Structure and Mechanisms of Action of Botulinum Neurotoxins. , 2020, , 15-26.		0
12	Genome Sequence of the Fish Brain Bacterium Clostridium tarantellae. Microbiology Resource Announcements, 2020, 9, .	0.6	0
13	An Agonist of the CXCR4 Receptor Strongly Promotes Regeneration of Degenerated Motor Axon Terminals. Cells, 2019, 8, 1183.	4.1	16
14	The role of the single interchains disulfide bond in tetanus and botulinum neurotoxins and the development of antitetanus and antibotulism drugs. Cellular Microbiology, 2019, 21, e13037.	2.1	17
15	A CXCR4 receptor agonist strongly stimulates axonal regeneration after damage. Annals of Clinical and Translational Neurology, 2019, 6, 2395-2402.	3.7	15
16	Hsp90 and Thioredoxin-Thioredoxin Reductase enable the catalytic activity of Clostridial neurotoxins inside nerve terminals. Toxicon, 2018, 147, 32-37.	1.6	24
17	Postnatal Development and Distribution of Sympathetic Innervation in Mouse Skeletal Muscle. International Journal of Molecular Sciences, 2018, 19, 1935.	4.1	40
18	Variability in venom composition of European viper subspecies limits the cross-effectiveness of antivenoms. Scientific Reports, 2018, 8, 9818.	3.3	25

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19	Novel Botulinum Neurotoxins: Exploring Underneath the Iceberg Tip. Toxins, 2018, 10, 190.	3.4	55
20	Detection of Clostridium tetani Neurotoxins Inhibited In Vivo by Botulinum Antitoxin B: Potential for Misleading Mouse Test Results in Food Controls. Toxins, 2018, 10, 248.	3.4	4
21	Primary resistance of human patients to botulinum neurotoxins A and B. Annals of Clinical and Translational Neurology, 2018, 5, 971-975.	3.7	4
22	Mouse Phrenic Nerve Hemidiaphragm Assay (MPN). Bio-protocol, 2018, 8, e2759.	0.4	4
23	Electrophysiological Recordings of Evoked End-Plate Potential on Murine Neuro-muscular Synapse Preparations. Bio-protocol, 2018, 8, e2803.	0.4	10
24	Preparation of Cerebellum Granule Neurons from Mouse or Rat Pups and Evaluation of Clostridial Neurotoxin Activity and Their Inhibitors by Western Blot and Immunohistochemistry. Bio-protocol, 2018, 8, e2918.	0.4	7
25	Challenges in searching for therapeutics against Botulinum Neurotoxins. Expert Opinion on Drug Discovery, 2017, 12, 497-510.	5.0	41
26	Ablation of S1P₃receptor protects mouse soleus from age-related drop in muscle mass, force, and regenerative capacity. American Journal of Physiology - Cell Physiology, 2017, 313, C54-C67.	4.6	8
27	<scp>CXCL</scp>12Î±/<scp>SDF</scp>â€‘1 from perisynaptic Schwann cells promotes regeneration of injured motor axonÂterminals. EMBO Molecular Medicine, 2017, 9, 1000-1010.	6.9	48
28	Botulinum Neurotoxins: Biology, Pharmacology, and Toxicology. Pharmacological Reviews, 2017, 69, 200-235.	16.0	506
29	Hsp90 is involved in the entry of clostridial neurotoxins into the cytosol of nerve terminals. Cellular Microbiology, 2017, 19, e12647.	2.1	39
30	Historical Perspectives and Guidelines for Botulinum Neurotoxin Subtype Nomenclature. Toxins, 2017, 9, 38.	3.4	232
31	Botulinum neurotoxin C mutants reveal different effects of syntaxin or SNAP-25 proteolysis on neuromuscular transmission. PLoS Pathogens, 2017, 13, e1006567.	4.7	27
32	High Conservation of Tetanus and Botulinum Neurotoxins Cleavage Sites on Human SNARE Proteins Suggests That These Pathogens Exerted Little or No Evolutionary Pressure on Humans. Toxins, 2017, 9, 404.	3.4	9
33	On the translocation of botulinum and tetanus neurotoxins across the membrane of acidic intracellular compartments. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 467-474.	2.6	82
34	A Novel Inhibitor Prevents the Peripheral Neuroparalysis of Botulinum Neurotoxins. Scientific Reports, 2015, 5, 17513.	3.3	29
35	Snake and Spider Toxins Induce a Rapid Recovery of Function of Botulinum Neurotoxin Paralysed Neuromuscular Junction. Toxins, 2015, 7, 5322-5336.	3.4	30
36	Current gaps in basic science knowledge of botulinum neurotoxin biological actions. Toxicon, 2015, 107, 59-63.	1.6	15

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37	The thioredoxin reductase â€“ Thioredoxin redox system cleaves the interchain disulphide bond of botulinum neurotoxins on the cytosolic surface of synaptic vesicles. Toxicon, 2015, 107, 32-36.	1.6	26
38	Inhibition of botulinum neurotoxins interchain disulfide bond reduction prevents the peripheral neuroparalysis of botulism. Biochemical Pharmacology, 2015, 98, 522-530.	4.4	33
39	Thioredoxin and Its Reductase Are Present on Synaptic Vesicles, and Their Inhibition Prevents the Paralysis Induced by Botulinum Neurotoxins. Cell Reports, 2014, 8, 1870-1878.	6.4	90
40	Diphtheria toxin conformational switching at acidic pH. FEBS Journal, 2014, 281, 2115-2122.	4.7	26
41	Botulinum neurotoxins: genetic, structural and mechanistic insights. Nature Reviews Microbiology, 2014, 12, 535-549.	28.6	461
42	Botulinum Neurotoxin Type A is Internalized and Translocated from Small Synaptic Vesicles at the Neuromuscular Junction. Molecular Neurobiology, 2013, 48, 120-127.	4.0	65
43	The thioredoxin reductaseâ€thioredoxin system is involved in the entry of tetanus and botulinum neurotoxins in the cytosol of nerve terminals. FEBS Letters, 2013, 587, 150-155.	2.8	55
44	Neutralisation of specific surface carboxylates speeds up translocation of botulinum neurotoxin type B enzymatic domain. FEBS Letters, 2013, 587, 3831-3836.	2.8	33
45	Botulinum neurotoxin serotype D is poorly effective in humans: An in vivo electrophysiological study. Clinical Neurophysiology, 2013, 124, 999-1004.	1.5	37
46	Time course and temperature dependence of the membrane translocation of tetanus and botulinum neurotoxins C and D in neurons. Biochemical and Biophysical Research Communications, 2013, 430, 38-42.	2.1	30
47	pH-sensitive PEG-based micelles for tumor targeting. Journal of Drug Targeting, 2011, 19, 303-313.	4.4	6
48	Double anchorage to the membrane and intact inter-chain disulfide bond are required for the low pH induced entry of tetanus and botulinum neurotoxins into neurons. Cellular Microbiology, 2011, 13, 1731-1743.	2.1	61
49	Re-Assembled Botulinum Neurotoxin Inhibits CNS Functions without Systemic Toxicity. Toxins, 2011, 3, 345-355.	3.4	31