Valentina Bonetto

List of Publications by Year
in descending order

66 papers	3,833 citations	136950 32 h-index	123424 61 g-index
68 all docs	68 docs citations	68 times ranked	5420 citing authors

#	Article	IF	Citations
1	Identification by redox proteomics of glutathionylated proteins in oxidatively stressed human T lymphocytes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3505-3510.	7.1	536
2	Glutathionylation of human thioredoxin: A possible crosstalk between the glutathione and thioredoxin systems. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9745-9749.	7.1	325
3	Redox proteomics: Identification of oxidatively modified proteins. Proteomics, 2003, 3, 1145-1153.	2.2	246
4	Thiolâ€“Disulfide Balance: From the Concept of Oxidative Stress to that of Redox Regulation. Antioxidants and Redox Signaling, 2005, 7, 964-972.	5.4	231
5	Mutant Copper-Zinc Superoxide Dismutase (SOD1) Induces Protein Secretion Pathway Alterations and Exosome Release in Astrocytes. Journal of Biological Chemistry, 2013, 288, 15699-15711.	3.4	216
6	Protein Nitration in a Mouse Model of Familial Amyotrophic Lateral Sclerosis. Journal of Biological Chemistry, 2005, 280, 16295-16304.	3.4	168
7	Extracellular Vesicles and a Novel Form of Communication in the Brain. Frontiers in Neuroscience, 2016, 10, 127.	2.8	144
8	Actin Glutathionylation Increases in Fibroblasts of Patients with Friedreich's Ataxia. Journal of Biological Chemistry, 2003, 278, 42588-42595.	3.4	142
9	Redox regulation of surface protein thiols: Identification of integrin Â-4 as a molecular target by using redox proteomics. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 14737-14741.	7.1	124
10	Amyotrophic Lateral Sclerosis Multiprotein Biomarkers in Peripheral Blood Mononuclear Cells. PLoS ONE, 2011, 6, e25545.	2.5	123
11	Characterization of Detergent-Insoluble Proteins in ALS Indicates a Causal Link between Nitrative Stress and Aggregation in Pathogenesis. PLoS ONE, 2009, 4, e8130.	2.5	101
12	Insoluble Mutant SOD1 Is Partly Oligoubiquitinated in Amyotrophic Lateral Sclerosis Mice. Journal of Biological Chemistry, 2006, 281, 33325-33335.	3.4	86
13	Proteomic analysis of spinal cord of presymptomatic amyotrophic lateral sclerosis G93A SOD1 mouse. Biochemical and Biophysical Research Communications, 2007, 353, 719-725.	2.1	72
14	Neurofilaments in motor neuron disorders: towards promising diagnostic and prognostic biomarkers. Molecular Neurodegeneration, 2020, 15, 58.	10.8	68
15	Differences in protein quality control correlate with phenotype variability in 2 mouse models of familial amyotrophic lateral sclerosis. Neurobiology of Aging, 2015, 36, 492-504.	3.1	63
16	C-Terminal Sequence Analysis of Peptides and Proteins Using Carboxypeptidases and Mass Spectrometry after Derivatization of Lys and Cys Residues. Analytical Chemistry, 1997, 69, 1315-1319.	6.5	57
17	New Insights on the Mechanisms of Disease Course Variability in ALS from Mutant SOD1 Mouse Models. Brain Pathology, 2016, 26, 237-247.	4.1	56
18	Role of Extracellular Vesicles in Amyotrophic Lateral Sclerosis. Frontiers in Neuroscience, 2018, 12, 574.	2.8	47

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19	Proteostasis and ALS: protocol for a phase II, randomised, double-blind, placebo-controlled, multicentre clinical trial for colchicine in ALS (Co-ALS). BMJ Open, 2019, 9, e028486.	1.9	44
20	Purification of the Aldehyde Oxidase Homolog 1 (AOH1) Protein and Cloning of the AOH1 and Aldehyde Oxidase Homolog 2 (AOH2) Genes. Journal of Biological Chemistry, 2001, 276, 46347-46363.	3.4	43
21	Redox regulation of cyclophilin A by glutathionylation. Proteomics, 2006, 6, 817-825.	2.2	43
22	A Mutant Prion Protein Sensitizes Neurons to Glutamate-Induced Excitotoxicity. Journal of Neuroscience, 2013, 33, 2408-2418.	3.6	43
23	Targeting Extracellular Cyclophilin A Reduces Neuroinflammation and Extends Survival in a Mouse Model of Amyotrophic Lateral Sclerosis. Journal of Neuroscience, 2017, 37, 1413-1427.	3.6	42
24	Calcineurin Inhibitor-Based Immunosuppression and COVID-19: Results from a Multidisciplinary Cohort of Patients in Northern Italy. Microorganisms, 2020, 8, 977.	3.6	41
25	Peptidylprolyl isomerase A governs TARDBP function and assembly in heterogeneous nuclear ribonucleoprotein complexes. Brain, 2015, 138, 974-991.	7.6	40
26	The Molecular Assembly of Amyloid AÎ² Controls Its Neurotoxicity and Binding to Cellular Proteins. PLoS ONE, 2011, 6, e24909.	2.5	39
27	Myosin as a potential redox-sensor: an inÂvitro study. Journal of Muscle Research and Cell Motility, 2008, 29, 119-126.	2.0	37
28	Nitroproteomics of Peripheral Blood Mononuclear Cells from Patients and a Rat Model of ALS. Antioxidants and Redox Signaling, 2009, 11, 1559-1567.	5.4	35
29	Mutant Prion Protein Expression Is Associated with an Alteration of the Rab GDP Dissociation Inhibitor Î± (GDI)/Rab11 Pathway. Molecular and Cellular Proteomics, 2010, 9, 611-622.	3.8	35
30	A Novel, Drug-based, Cellular Assay for the Activity of Neurotoxic Mutants of the Prion Protein. Journal of Biological Chemistry, 2010, 285, 7752-7765.	3.4	34
31	Lack of TNFâ€alpha receptor type 2 protects motor neurons in a cellular model of amyotrophic lateral sclerosis and in mutant SOD1 mice but does not affect disease progression. Journal of Neurochemistry, 2015, 135, 109-124.	3.9	33
32	RNS60 exerts therapeutic effects in the SOD1 ALS mouse model through protective glia and peripheral nerve rescue. Journal of Neuroinflammation, 2018, 15, 65.	7.2	33
33	Synthetic Miniprion PrP106. Journal of Biological Chemistry, 2002, 277, 31327-31334.	3.4	32
34	Serological Proteome Analysis (SERPA) as a tool for the identification of new candidate autoantigens in type 1 diabetes. Journal of Proteomics, 2013, 82, 263-273.	2.4	32
35	Focus on the heterogeneity of amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2020, 21, 485-495.	1.7	32
36	Isolation and characterization of sulphated and nonsulphated forms of cholecystokinin-58 and their action on gallbladder contraction. FEBS Journal, 1999, 264, 336-340.	0.2	31

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37	Decreased Levels of Foldase and Chaperone Proteins Are Associated with an Early-Onset Amyotrophic Lateral Sclerosis. Frontiers in Molecular Neuroscience, 2017, 10, 99.	2.9	30
38	A pilot trial of RNS60 in amyotrophic lateral sclerosis. Muscle and Nerve, 2019, 59, 303-308.	2.2	29
39	Regulation of redox-sensitive exofacial protein thiols in CHO cells. Biological Chemistry, 2006, 387, 1371-6.	2.5	28
40	Two alternative processing pathways for a preprohormone: a bioactive form of secretin.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 11985-11989.	7.1	25
41	Analysis of the cerebellar proteome in a transgenic mouse model of inherited prion disease reveals preclinical alteration of calcineurin activity. Proteomics, 2006, 6, 2823-2834.	2.2	19
42	Diagnostic and prognostic values of PBMC proteins in amyotrophic lateral sclerosis. Neurobiology of Disease, 2020, 139, 104815.	4.4	19
43	Decoding distinctive features of plasma extracellular vesicles in amyotrophic lateral sclerosis. Molecular Neurodegeneration, 2021, 16, 52.	10.8	19
44	Motor neuron degeneration, severe myopathy and TDP-43 increase in a transgenic pig model of SOD1-linked familiar ALS. Neurobiology of Disease, 2019, 124, 263-275.	4.4	17
45	Isolation and structure of repressor-like proteins from the archaeonSulfolobus solfataricus. FEBS Letters, 1998, 432, 141-144.	2.8	16
46	Transglutaminase 2 transamidation activity during first-phase insulin secretion: natural substrates in INS-1E. Acta Diabetologica, 2013, 50, 61-72.	2.5	16
47	A Mouse Model of Familial ALS Has Increased CNS Levels of Endogenous Ubiquinol9/10 and Does Not Benefit from Exogenous Administration of Ubiquinol10. PLoS ONE, 2013, 8, e69540.	2.5	14
48	Micro-computed tomography for non-invasive evaluation of muscle atrophy in mouse models of disease. PLoS ONE, 2018, 13, e0198089.	2.5	13
49	Defective cyclophilin A induces TDP-43 proteinopathy: implications for amyotrophic lateral sclerosis and frontotemporal dementia. Brain, 2021, 144, 3710-3726.	7.6	13
50	The Toxicity of a Mutant Prion Protein Is Cell-Autonomous, and Can Be Suppressed by Wild-Type Prion Protein on Adjacent Cells. PLoS ONE, 2012, 7, e33472.	2.5	13
51	A possible role of transglutaminase 2 in the nucleus of INS-1E and of cells of human pancreatic islets. Journal of Proteomics, 2014, 96, 314-327.	2.4	12
52	Identification of compounds inhibiting prion replication and toxicity by removing PrP^C from the cell surface. Journal of Neurochemistry, 2020, 152, 136-150.	3.9	11
53	Spleen antibacterial peptides: high levels of PR-39 and presence of two forms of NK-lysin. Cellular and Molecular Life Sciences, 1999, 56, 174-178.	5.4	10
54	C-terminal sequence determination of modified peptides by MALDI MS. The Protein Journal, 1997, 16, 371-374.	1.1	9

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55	Full-length and N-terminally truncated chicken intestinal diazepam-binding inhibitor. Regulatory Peptides, 1997, 69, 63-68.	1.9	8
56	A Novel HGF/SF Receptor (MET) Agonist Transiently Delays the Disease Progression in an Amyotrophic Lateral Sclerosis Mouse Model by Promoting Neuronal Survival and Dampening the Immune Dysregulation. International Journal of Molecular Sciences, 2020, 21, 8542.	4.1	8
57	IL-7-induced phosphorylation of the adaptor Crk-like and other targets. Cellular Signalling, 2018, 47, 131-141.	3.6	6
58	Contingent intramuscular boosting of P2XR7 axis improves motor function in transgenic ALS mice. Cellular and Molecular Life Sciences, 2022, 79, 7.	5.4	5
59	Characterization of antimalarial SPf66 peptide using MALDIâ€“TOF MS, CD and SEC. Peptides, 2002, 23, 1527-1535.	2.4	4
60	A C-terminally elongated form of PHI from porcine intestine. Cellular and Molecular Life Sciences, 1999, 56, 709-713.	5.4	3
61	Isolation of Peptides from Porcine Intestinal Tissue That Induce Extracellular Acidification in CHO Cells: Identification of the Active Peptide as IGF-I and Characterization of a Fragment of Calponin H1 Processed at a Dibasic Site. Archives of Biochemistry and Biophysics, 2001, 385, 276-282.	3.0	3
62	Thiol-Disulfide Oxidoreduction of Protein Cysteines: Old Methods Revisited for Proteomics. , 2006, , 101-122.		3
63	Introduction. Brain Pathology, 2016, 26, 224-226.	4.1	3
64	Cyclophillin A deficiency accelerates RML-induced prion disease. Neurobiology of Disease, 2019, 130, 104498.	4.4	2
65	Large-Scale HPLC Purification of Calbindin D9k from Porcine Intestine. Protein Expression and Purification, 1999, 17, 387-391.	1.3	0
66	Extracellular acidification: a novel detection system for ligand/receptor interactions. Demonstration with bioactive peptides and CHO or pancreatic beta cells, but of possible interest for tracing putative receptors in ethanol metabolism. Advances in Experimental Medicine and Biology, 1999, 463, 351-8.	1.6	0