Monica Bucciantini

List of Publications by Year
in descending order

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74	5,656	147566	76769
papers	citations	31 h-index	74 g-index

76	76	76	6510
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inherent toxicity of aggregates implies a common mechanism for protein misfolding diseases. Nature, 2002, 416, 507-511.	13.7	2,322
2	Prefibrillar Amyloid Protein Aggregates Share Common Features of Cytotoxicity. Journal of Biological Chemistry, 2004, 279, 31374-31382.	1.6	346
3	Healthy Effects of Plant Polyphenols: Molecular Mechanisms. International Journal of Molecular Sciences, 2020, 21, 1250.	1.8	265
4	Mutational analysis of acylphosphatase suggests the importance of topology and contact order in protein folding. Nature Structural Biology, 1999, 6, 1005-1009.	9.7	257
5	Prefibrillar Amyloid Aggregates Could Be Generic Toxins in Higher Organisms. Journal of Neuroscience, 2006, 26, 8160-8167.	1.7	222
6	Toxic effects of amyloid fibrils on cell membranes: the importance of ganglioside GM1. FASEB Journal, 2012, 26, 818-831.	0.2	118
7	Aβ(1-42) Aggregates into Non-Toxic Amyloid Assemblies in the Presence of the Natural Polyphenol Oleuropein Aglycon. Current Alzheimer Research, 2011, 8, 841-852.	0.7	113
8	Oleuropein aglycon prevents cytotoxic amyloid aggregation of human amylinâ˜†. Journal of Nutritional Biochemistry, 2010, 21, 726-735.	1.9	107
9	Solution conditions can promote formation of either amyloid protofilaments or mature fibrils from the HypF N-terminal domain. Protein Science, 2001, 10, 2541-2547.	3.1	103
10	Monitoring the Process of HypF Fibrillization and Liposome Permeabilization by Protofibrils. Journal of Molecular Biology, 2004, 338, 943-957.	2.0	101
11	Amyloid Aggregation: Role of Biological Membranes and the Aggregateâ€“Membrane System. Journal of Physical Chemistry Letters, 2014, 5, 517-527.	2.1	88
12	Effect of Tetracyclines on the Dynamics of Formation and Destructuration of Î²2-Microglobulin Amyloid Fibrils. Journal of Biological Chemistry, 2011, 286, 2121-2131.	1.6	87
13	Insights into the molecular basis of the differing susceptibility of varying cell types to the toxicity of amyloid aggregates. Journal of Cell Science, 2005, 118, 3459-3470.	1.2	85
14	The lowMrphosphotyrosine protein phosphatase behaves differently when phosphorylated at Tyr131or Tyr132by Src kinase. FEBS Letters, 1999, 456, 73-78.	1.3	63
15	Crystal Structure and Anion Binding in the Prokaryotic Hydrogenase Maturation Factor HypF Acylphosphatase-like Domain. Journal of Molecular Biology, 2002, 321, 785-796.	2.0	63
16	Dephosphorylation of tyrosine phosphorylated synthetic peptides by rat liver phosphotyrosine protein phosphatase isoenzymes. FEBS Letters, 1993, 326, 131-134.	1.3	61
17	pp60v-arc Phosphorylates and Activates Low Molecular Weight Phosphotyrosine-protein Phosphatase. Journal of Biological Chemistry, 1996, 271, 1278-1281.	1.6	57
18	Oleuropein aglycone stabilizes the monomeric Î±-synuclein and favours the growth of non-toxic aggregates. Scientific Reports, 2018, 8, 8337.	1.6	54

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19	Stabilisation of Î±-helices by site-directed mutagenesis reveals the importance of secondary structure in the transition state for acylphosphatase folding. Journal of Molecular Biology, 2000, 300, 633-647.	2.0	53
20	Thermodynamics and Kinetics of Folding of Common-Type Acylphosphatase:Â Comparison to the Highly Homologous Muscle Isoenzymeâ€. Biochemistry, 1999, 38, 2135-2142.	1.2	51
21	The (1â€“63) Region of the p53 Transactivation Domain Aggregates In Vitro into Cytotoxic Amyloid Assemblies. Biophysical Journal, 2008, 94, 3635-3646.	0.2	50
22	Interaction of an anticancer peptide fragment of azurin with p53 and its isolated domains studied by atomic force spectroscopy. International Journal of Nanomedicine, 2011, 6, 3011.	3.3	50
23	Solution conditions can promote formation of either amyloid protofilaments or mature fibrils from the HypF Nâ€terminal domain. Protein Science, 2001, 10, 2541-2547.	3.1	47
24	Natively Folded HypF-N and Its Early Amyloid Aggregates Interact with Phospholipid Monolayers and Destabilize Supported Phospholipid Bilayers. Biophysical Journal, 2006, 91, 4575-4588.	0.2	46
25	Nonspecific Interaction of Prefibrillar Amyloid Aggregates with Glutamatergic Receptors Results in Ca2+ Increase in Primary Neuronal Cells. Journal of Biological Chemistry, 2008, 283, 29950-29960.	1.6	46
26	Oleuropein aglycone and hydroxytyrosol interfere differently with toxic AÎ²1-42 aggregation. Food and Chemical Toxicology, 2019, 129, 1-12.	1.8	46
27	Patterns of cell death triggered in two different cell lines by HypFâ€N prefibrillar aggregates. FASEB Journal, 2005, 19, 1-23.	0.2	42
28	The Yeast Prion Ure2p Native-like Assemblies Are Toxic to Mammalian Cells Regardless of Their Aggregation State*. Journal of Biological Chemistry, 2006, 281, 15337-15344.	1.6	41
29	The polyphenol Oleuropein aglycone hinders the growth of toxic transthyretin amyloid assemblies. Journal of Nutritional Biochemistry, 2016, 30, 153-166.	1.9	39
30	Lysozyme interaction with negatively charged lipid bilayers: protein aggregation and membrane fusion. Soft Matter, 2012, 8, 4524.	1.2	32
31	Arginine-23 is involved in the catalytic site of muscle acylphosphatase. BBA - Proteins and Proteomics, 1994, 1208, 75-80.	2.1	31
32	Â2-Microglobulin is potentially neurotoxic, but the blood brain barrier is likely to protect the brain from its toxicity. Nephrology Dialysis Transplantation, 2008, 24, 1176-1181.	0.4	31
33	A FTIR microspectroscopy study of the structural and biochemical perturbations induced by natively folded and aggregated transthyretin in HL-1 cardiomyocytes. Scientific Reports, 2018, 8, 12508.	1.6	31
34	Oleuropein aglycone: A polyphenol with different targets against amyloid toxicity. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1432-1442.	1.1	30
35	Expression, Purification, and Characterization of Acylphosphatase Muscular Isoenzyme as Fusion Protein with GlutathioneS-Transferase. Protein Expression and Purification, 1995, 6, 799-805.	0.6	28
36	Interactions of lysozyme with phospholipid vesicles: effects of vesicle biophysical features on protein misfolding and aggregation. Soft Matter, 2012, 8, 9115.	1.2	28

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37	Successful Brain Delivery of Andrographolide Loaded in Human Albumin Nanoparticles to TgCRND8 Mice, an Alzheimerâ€™s Disease Mouse Model. Frontiers in Pharmacology, 2019, 10, 910.	1.6	28
38	Insight into the molecular mechanism underlying the inhibition of Î±-synuclein aggregation by hydroxytyrosol. Biochemical Pharmacology, 2020, 173, 113722.	2.0	25
39	Molecular insights into cell toxicity of a novel familial amyloidogenic variant of Î²2â€microglobulin. Journal of Cellular and Molecular Medicine, 2016, 20, 1443-1456.	1.6	23
40	Different ataxin-3 amyloid aggregates induce intracellular Ca 2+ deregulation by different mechanisms in cerebellar granule cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3155-3165.	1.9	22
41	Biochemical and Electrophysiological Modification of Amyloid Transthyretin on Cardiomyocytes. Biophysical Journal, 2016, 111, 2024-2038.	0.2	19
42	Biological Membranes as Protein Aggregation Matrices and Targets of Amyloid Toxicity. Methods in Molecular Biology, 2010, 648, 231-243.	0.4	19
43	A specific nanobody prevents amyloidogenesis of D76N Î²2-microglobulin in vitro and modifies its tissue distribution in vivo. Scientific Reports, 2017, 7, 46711.	1.6	18
44	Garcinoic acid prevents Î²-amyloid (AÎ²) deposition in the mouse brain. Journal of Biological Chemistry, 2020, 295, 11866-11876.	1.6	18
45	Natural Compound from Olive Oil Inhibits S100A9 Amyloid Formation and Cytotoxicity: Implications for Preventing Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2021, 12, 1905-1918.	1.7	18
46	Expression, purification and preliminary crystal analysis of the human lowMrphosphotyrosine protein phosphatase isoform 1. FEBS Letters, 1998, 426, 52-56.	1.3	16
47	Synthetic Lipid Vesicles Recruit Native-Like Aggregates and Affect the Aggregation Process of the Prion Ure2p: Insights on Vesicle Permeabilization and Charge Selectivity. Biophysical Journal, 2009, 96, 3319-3330.	0.2	16
48	Clasmatodendrosis and Î²â€amyloidosis in aging hippocampus. FASEB Journal, 2016, 30, 1480-1491.	0.2	16
49	Screening for amyloid-Î² aggregation inhibitor and neuronal toxicity of eight Tunisian medicinal plants. Industrial Crops and Products, 2018, 111, 823-833.	2.5	14
50	Sequence-specific recognition of peptide substrates by the lowMrphosphotyrosine protein phosphatase isoforms. FEBS Letters, 1998, 422, 213-217.	1.3	13
51	EVOO Polyphenols Relieve Synergistically Autophagy Dysregulation in a Cellular Model of Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 7225.	1.8	13
52	C-terminal region contributes to muscle acylphosphatase three-dimensional structure stabilisation. FEBS Letters, 1996, 384, 172-176.	1.3	12
53	Properties of N-terminus truncated and C-terminus mutated muscle acylphosphatases. FEBS Letters, 1995, 362, 175-179.	1.3	11
54	Allium roseum L. extract inhibits amyloid beta aggregation and toxicity involved in Alzheimerâ€™s disease. PLoS ONE, 2020, 15, e0223815.	1.1	11

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55	Xenohormesis underlyes the anti-aging and healthy properties of olive polyphenols. Mechanisms of Ageing and Development, 2022, 202, 111620.	2.2	10
56	Olive phenols preserve lamin B1 expression reducing cGAS/STING/NFÎºBâ€mediated SASP in ionizing radiationâ€induced senescence. Journal of Cellular and Molecular Medicine, 2022, 26, 2337-2350.	1.6	10
57	Does azurin bind to the transactivation domain of p53? A Trp phosphorescence study. Biophysical Chemistry, 2011, 159, 287-293.	1.5	9
58	Protective effect of <i>Vigna unguiculata</i> extract against aging and neurodegeneration. Aging, 2020, 12, 19785-19808.	1.4	9
59	Properties of Cys21-mutated muscle acylphosphatases. The Protein Journal, 1996, 15, 27-34.	1.1	8
60	Low molecular weight phosphotyrosine protein phosphatase translocation during cell stimulation with platelet-derived growth factor. FEBS Letters, 1998, 432, 145-149.	1.3	8
61	Structural Features and Toxicity of Î±-Synuclein Oligomers Grown in the Presence of DOPAC. International Journal of Molecular Sciences, 2021, 22, 6008.	1.8	8
62	The Amphipathic GM1 Molecule Stabilizes Amyloid Aggregates, Preventing their Cytotoxicity. Biophysical Journal, 2020, 119, 326-336.	0.2	7
63	Crystallization and preliminary X-ray characterization of the acylphosphatase-like domain from theEscherichia colihydrogenase maturation factor HypF. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 524-525.	2.5	6
64	Differentin Vitroandin VivoActivity of LowMrPhosphotyrosine Protein Phosphatase on Epidermal Growth Factor Receptor. Biochemical and Biophysical Research Communications, 1998, 250, 577-581.	1.0	5
65	S-Homocysteinylation effects on transthyretin: worsening of cardiomyopathy onset. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129453.	1.1	5
66	Maysin plays a protective role against Î±-Synuclein oligomers cytotoxicity by triggering autophagy activation. Food and Chemical Toxicology, 2020, 144, 111626.	1.8	5
67	Correlation between Sialylation Status and Cell Susceptibility to Amyloid Toxicity. Cells, 2022, 11, 601.	1.8	4
68	Crystallisation of a low molecular weight phosphotyrosine protein phosphatase from bovine liver. FEBS Letters, 1994, 343, 107-108.	1.3	3
69	Proteomic analysis of cells exposed to prefibrillar aggregates of HypF-N. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 1243-1250.	1.1	3
70	Embryonic stem and haematopoietic progenitor cells resist to AÎ²2 oligomer toxicity and maintain the differentiation potency in culture. Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis, 2010, 17, 137-145.	1.4	3
71	The Transthyretin/Oleuropein Aglycone Complex: A New Tool against TTR Amyloidosis. Pharmaceuticals, 2022, 15, 277.	1.7	3
72	1,2,4â€trihydroxynaphthaleneâ€2â€Oâ€Î²â€Dâ€glucopyranoside delays amyloidâ€Î²₄₂ aggregation and reduces amyloid cytotoxicity. BioFactors, 2018, 44, 272-280.	2.6	2

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73	Efficacy of Oleuropein Aglycone in the Treatment of Transthyretin-Amyloidosis. Biochemistry & Molecular Biology Journal, 2016, 02, .	0.3	1
74	A new purified Lawsoniaside remodels amyloid-Î²42 fibrillation into a less toxic and non-amyloidogenic pathway. International Journal of Biological Macromolecules, 2018, 114, 830-835.	3.6	1