

Benedetta Mannini

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,598
citations

20
h-index

39
g-index

47
ext. papers

1,962
ext. citations

6.4
avg, IF

4.37
L-index

#	Paper	IF	Citations
39	A causative link between the structure of aberrant protein oligomers and their toxicity. <i>Nature Chemical Biology</i> , 2010 , 6, 140-7	11.7	443
38	Systematic development of small molecules to inhibit specific microscopic steps of A β 2 aggregation in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E200-E208	11.5	134
37	Toxicity of protein oligomers is rationalized by a function combining size and surface hydrophobicity. <i>ACS Chemical Biology</i> , 2014 , 9, 2309-17	4.9	128
36	Molecular mechanisms used by chaperones to reduce the toxicity of aberrant protein oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12479-84	11.5	121
35	SERS Detection of Amyloid Oligomers on Metallorganic-Decorated Plasmonic Beads. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9420-8	9.5	71
34	Trodusquemine enhances A β aggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019 , 10, 225	17.4	69
33	Transthyretin suppresses the toxicity of oligomers formed by misfolded proteins in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2302-14	6.9	55
32	Proteome-wide observation of the phenomenon of life on the edge of solubility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 1015-1020	11.5	52
31	Multistep Inhibition of β Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. <i>ACS Chemical Biology</i> , 2018 , 13, 2308-2319	4.9	52
30	A comparison of the biochemical modifications caused by toxic and non-toxic protein oligomers in cells. <i>Journal of Cellular and Molecular Medicine</i> , 2011 , 15, 2106-16	5.6	46
29	Large proteins have a great tendency to aggregate but a low propensity to form amyloid fibrils. <i>PLoS ONE</i> , 2011 , 6, e16075	3.7	41
28	Single molecule secondary structure determination of proteins through infrared absorption nanospectroscopy. <i>Nature Communications</i> , 2020 , 11, 2945	17.4	34
27	Stabilization and Characterization of Cytotoxic A β Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. <i>ACS Chemical Neuroscience</i> , 2018 , 9, 2959-2971	5.7	33
26	Chaperones as Suppressors of Protein Misfolded Oligomer Toxicity. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 98	6.1	29
25	Small-molecule sequestration of amyloid- β s a drug discovery strategy for Alzheimer's disease. <i>Science Advances</i> , 2020 , 6,	14.3	28
24	Rational design of a conformation-specific antibody for the quantification of A β oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13509-13518	11.5	26
23	Amyloid- β oligomer synaptotoxicity is mimicked by oligomers of the model protein HypF-N. <i>Neurobiology of Aging</i> , 2013 , 34, 2100-9	5.6	26

22	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020 , 3, 435	6.7	23
21	Salt anions promote the conversion of HypF-N into amyloid-like oligomers and modulate the structure of the oligomers and the monomeric precursor state. <i>Journal of Molecular Biology</i> , 2012 , 424, 132-49	6.5	22
20	Low-level expression of a folding-incompetent protein in Escherichia coli: search for the molecular determinants of protein aggregation in vivo. <i>Journal of Molecular Biology</i> , 2010 , 398, 600-13	6.5	20
19	Effect of molecular chaperones on aberrant protein oligomers in vitro: super-versus sub-stoichiometric chaperone concentrations. <i>Biological Chemistry</i> , 2016 , 397, 401-15	4.5	18
18	Glycosaminoglycans (GAGs) suppress the toxicity of HypF-N prefibrillar aggregates. <i>Journal of Molecular Biology</i> , 2012 , 421, 616-30	6.5	16
17	Bis(indolyl)phenylmethane derivatives are effective small molecules for inhibition of amyloid fibril formation by hen lysozyme. <i>European Journal of Medicinal Chemistry</i> , 2016 , 124, 361-371	6.8	14
16	Therapeutic Strategies to Reduce the Toxicity of Misfolded Protein Oligomers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
15	Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. <i>Scientific Reports</i> , 2017 , 7, 15045	4.9	11
14	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid- β and β Synuclein and Suppress the Toxicity of Their Oligomers. <i>Frontiers in Neuroscience</i> , 2021 , 15, 680026	5.1	11
13	Toxic HypF-N Oligomers Selectively Bind the Plasma Membrane to Impair Cell Adhesion Capability. <i>Biophysical Journal</i> , 2018 , 114, 1357-1367	2.9	8
12	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid- β Oligomers. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	7
11	Differential Interactome and Innate Immune Response Activation of Two Structurally Distinct Misfolded Protein Oligomers. <i>ACS Chemical Neuroscience</i> , 2019 , 10, 3464-3478	5.7	7
10	The induction of β helical structure in partially unfolded HypF-N does not affect its aggregation propensity. <i>Protein Engineering, Design and Selection</i> , 2011 , 24, 553-63	1.9	7
9	A β Oligomers Dysregulate Calcium Homeostasis by Mechanosensitive Activation of AMPA and NMDA Receptors. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 766-781	5.7	7
8	Surface-Catalyzed Secondary Nucleation Dominates the Generation of Toxic IAPP Aggregates. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 757425	5.6	6
7	A dopamine metabolite stabilizes neurotoxic amyloid- β oligomers. <i>Communications Biology</i> , 2021 , 4, 19	6.7	6
6	Small molecule sequestration of amyloid- β as a drug discovery strategy for Alzheimer's disease		4
5	A rationally designed bicyclic peptide remodels A β 2 aggregation in vitro and reduces its toxicity in a worm model of Alzheimer's disease. <i>Scientific Reports</i> , 2020 , 10, 15280	4.9	4

4	Distinct responses of human peripheral blood cells to different misfolded protein oligomers. <i>Immunology</i> , 2021 , 164, 358-371	7.8	2
3	Two human metabolites rescue a <i>C. elegans</i> model of Alzheimer's disease via a cytosolic unfolded protein response. <i>Communications Biology</i> , 2021 , 4, 843	6.7	1
2	Exogenous misfolded protein oligomers can cross the intestinal barrier and cause a disease phenotype in <i>C. elegans</i> . <i>Scientific Reports</i> , 2021 , 11, 14391	4.9	1
1	O2-02-02: TARGETING AMYLOID FORMATION USING RATIONALLY DESIGNED ANTIBODIES 2018 , 14, P611-P611		