

# Benedetta Mannini

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/867296/publications.pdf>

Version: 2024-02-01

43  
papers

2,308  
citations

304602

22  
h-index

276775

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3301  
citing authors

#	ARTICLE	IF	CITATIONS
1	A causative link between the structure of aberrant protein oligomers and their toxicity. <i>Nature Chemical Biology</i> , 2010, 6, 140-147.	3.9	499
2	Systematic development of small molecules to inhibit specific microscopic steps of A $\beta$ 242 aggregation in Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E200-E208.	3.3	180
3	Toxicity of Protein Oligomers Is Rationalized by a Function Combining Size and Surface Hydrophobicity. <i>ACS Chemical Biology</i> , 2014, 9, 2309-2317.	1.6	166
4	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, 12479-12484.	3.3	137
5	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.	3.3	115
6	Trodusquemine enhances A $\beta$ 242 aggregation but suppresses its toxicity by displacing oligomers from cell membranes. <i>Nature Communications</i> , 2019, 10, 225.	5.8	111
7	Small-molecule sequestration of amyloid- $\beta$ 2 as a drug discovery strategy for Alzheimer's disease. <i>Science Advances</i> , 2020, 6, .	4.7	95
8	Single molecule secondary structure determination of proteins through infrared absorption nanospectroscopy. <i>Nature Communications</i> , 2020, 11, 2945.	5.8	92
9	SERS Detection of Amyloid Oligomers on Metallorganic-Decorated Plasmonic Beads. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9420-9428.	4.0	89
10	Multistep Inhibition of $\beta$ -Synuclein Aggregation and Toxicity <i>in Vitro</i> and <i>in Vivo</i> by Trodusquemine. <i>ACS Chemical Biology</i> , 2018, 13, 2308-2319.	1.6	86
11	Transthyretin suppresses the toxicity of oligomers formed by misfolded proteins in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 2302-2314.	1.8	67
12	Rational design of a conformation-specific antibody for the quantification of A $\beta$ 2 oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13509-13518.	3.3	61
13	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, 2106-2116.	1.6	53
14	Large Proteins Have a Great Tendency to Aggregate but a Low Propensity to Form Amyloid Fibrils. <i>PLoS ONE</i> , 2011, 6, e16075.	1.1	51
15	Chaperones as Suppressors of Protein Misfolded Oligomer Toxicity. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 98.	1.4	44
16	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. <i>Communications Biology</i> , 2020, 3, 435.	2.0	44
17	Stabilization and Characterization of Cytotoxic A $\beta$ <sub>40</sub> Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. <i>ACS Chemical Neuroscience</i> , 2018, 9, 2959-2971.	1.7	42
18	A $\beta$ 2 Oligomers Dysregulate Calcium Homeostasis by Mechanosensitive Activation of AMPA and NMDA Receptors. <i>ACS Chemical Neuroscience</i> , 2021, 12, 766-781.	1.7	35

#	ARTICLE	IF	CITATIONS
19	Squalamine and Its Derivatives Modulate the Aggregation of Amyloid- $\beta^2$ and $\beta^1$ -Synuclein and Suppress the Toxicity of Their Oligomers. <i>Frontiers in Neuroscience</i> , 2021, 15, 680026.	1.4	34
20	Amyloid- $\beta^2$ oligomer synaptotoxicity is mimicked by oligomers of the model protein HypF-N. <i>Neurobiology of Aging</i> , 2013, 34, 2100-2109.	1.5	31
21	A dopamine metabolite stabilizes neurotoxic amyloid- $\beta^2$ oligomers. <i>Communications Biology</i> , 2021, 4, 19.	2.0	25
22	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, 132-149.	2.0	24
23	Surface-Catalyzed Secondary Nucleation Dominates the Generation of Toxic IAPP Aggregates. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 757425.	1.6	24
24	Therapeutic Strategies to Reduce the Toxicity of Misfolded Protein Oligomers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8651.	1.8	23
25	Low-Level Expression of a Folding-Incompetent Protein in <i>Escherichia coli</i> : Search for the Molecular Determinants of Protein Aggregation <i>In Vivo</i> . <i>Journal of Molecular Biology</i> , 2010, 398, 600-613.	2.0	21
26	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.	2.6	19
27	Effect of molecular chaperones on aberrant protein oligomers <i>in vitro</i> : super-versus sub-stoichiometric chaperone concentrations. <i>Biological Chemistry</i> , 2016, 397, 401-415.	1.2	19
28	Glycosaminoglycans (GAGs) Suppress the Toxicity of HypF-N Prefibrillar Aggregates. <i>Journal of Molecular Biology</i> , 2012, 421, 616-630.	2.0	17
29	Delivery of Native Proteins into <i>C. elegans</i> Using a Transduction Protocol Based on Lipid Vesicles. <i>Scientific Reports</i> , 2017, 7, 15045.	1.6	16
30	A rationally designed bicyclic peptide remodels A $\beta^{242}$ aggregation <i>in vitro</i> and reduces its toxicity in a worm model of Alzheimer's disease. <i>Scientific Reports</i> , 2020, 10, 15280.	1.6	15
31	Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid- $\beta^2$ Oligomers. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4542.	1.8	12
32	The induction of $\alpha$ -helical structure in partially unfolded HypF-N does not affect its aggregation propensity. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 553-563.	1.0	9
33	Toxic HypF-N Oligomers Selectively Bind the Plasma Membrane to Impair Cell Adhesion Capability. <i>Biophysical Journal</i> , 2018, 114, 1357-1367.	0.2	8
34	Differential Interactome and Innate Immune Response Activation of Two Structurally Distinct Misfolded Protein Oligomers. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3464-3478.	1.7	7
35	Distinct responses of human peripheral blood cells to different misfolded protein oligomers. <i>Immunology</i> , 2021, 164, 358-371.	2.0	7
36	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.	2.0	6

#	ARTICLE	IF	CITATIONS
37	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.	1.6	6
38	The Pathological G51D Mutation in Alpha-Synuclein Oligomers Confers Distinct Structural Attributes and Cellular Toxicity. <i>Molecules</i> , 2022, 27, 1293.	1.7	6
39	Systematic Development of Small Molecules to Inhibit Specific Microscopic Steps of Amyloid-Beta42 Aggregation in Alzheimer's Disease. <i>Biophysical Journal</i> , 2018, 114, 225a.	0.2	2
40	Modulating Amyloid-Beta Aggregation to Reduce the Toxicity of its Oligomeric Aggregates. <i>Biophysical Journal</i> , 2018, 114, 430a.	0.2	2
41	Attenuating the Toxicity of Amyloid-Beta Aggregation with Specific Species. <i>Biophysical Journal</i> , 2017, 112, 494a.	0.2	1
42	O2â€02â€02: TARGETING AMYLOID FORMATION USING RATIONALLY DESIGNED ANTIBODIES. <i>Alzheimer's and Dementia</i> , 2018, 14, P611.	0.4	0
43	Therapeutics Against Protein Misfolded Oligomers in Neurodegenerative Diseases. <i>Biophysical Journal</i> , 2021, 120, 286a.	0.2	0