# Benedetta Mannini

## List of Publications by Year in Descending Order



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| 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 | Surface-Catalyzed Secondary Nucleation Dominates the Generation of Toxic IAPP Aggregates. *Frontiers in Molecular Biosciences*, **2021**, 8, 757425 | 5.6 | 6 |
| 38 | Squalamine and Its Derivatives Modulate the Aggregation of Amyloid-β and α-Synuclein and Suppress the Toxicity of Their Oligomers. *Frontiers in Neuroscience*, **2021**, 15, 680026 | 5.1 | 11 |
| 37 | Distinct responses of human peripheral blood cells to different misfolded protein oligomers. *Immunology*, **2021**, 164, 358-371 | 7.8 | 2 |
| 36 | Two human metabolites rescue a C. elegans model of Alzheimer's disease via a cytosolic unfolded protein response. *Communications Biology*, **2021**, 4, 843 | 6.7 | 1 |
| 35 | Aβ Oligomers Dysregulate Calcium Homeostasis by Mechanosensitive Activation of AMPA and NMDA Receptors. *ACS Chemical Neuroscience*, **2021**, 12, 766-781 | 5.7 | 7 |
| 34 | Exogenous misfolded protein oligomers can cross the intestinal barrier and cause a disease phenotype in C. elegans. *Scientific Reports*, **2021**, 11, 14391 | 4.9 | 1 |
| 33 | A dopamine metabolite stabilizes neurotoxic amyloid-β oligomers. *Communications Biology*, **2021**, 4, 19 | 6.7 | 6 |
| 32 | Small-molecule sequestration of amyloid-β as a drug discovery strategy for Alzheimer's disease. *Science Advances*, **2020**, 6, | 14.3 | 28 |
| 31 | Single molecule secondary structure determination of proteins through infrared absorption nanospectroscopy. *Nature Communications*, **2020**, 11, 2945 | 17.4 | 34 |
| 30 | Rational design of a conformation-specific antibody for the quantification of Aβ oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13509-13518 | 11.5 | 26 |
| 29 | Rationally Designed Antibodies as Research Tools to Study the Structure-Toxicity Relationship of Amyloid-β Oligomers. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 7 |
| 28 | Proteome-wide observation of the phenomenon of life on the edge of solubility. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1015-1020 | 11.5 | 52 |
| 27 | Therapeutic Strategies to Reduce the Toxicity of Misfolded Protein Oligomers. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 12 |
| 26 | A rationally designed bicyclic peptide remodels Aβ42 aggregation in vitro and reduces its toxicity in a worm model of Alzheimer's disease. *Scientific Reports*, **2020**, 10, 15280 | 4.9 | 4 |
| 25 | Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. *Communications Biology*, **2020**, 3, 435 | 6.7 | 23 |
| 24 | Differential Interactome and Innate Immune Response Activation of Two Structurally Distinct Misfolded Protein Oligomers. *ACS Chemical Neuroscience*, **2019**, 10, 3464-3478 | 5.7 | 7 |
| 23 | Trodusquemine enhances Aβ aggregation but suppresses its toxicity by displacing oligomers from cell membranes. *Nature Communications*, **2019**, 10, 225 | 17.4 | 69 |

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| 22 | Toxic HypF-N Oligomers Selectively Bind the Plasma Membrane to Impair Cell Adhesion Capability. *Biophysical Journal*, **2018**, 114, 1357-1367 | 2.9 | 8 |
| 21 | Stabilization and Characterization of Cytotoxic A□Oligomers Isolated from an Aggregation Reaction in the Presence of Zinc Ions. *ACS Chemical Neuroscience*, **2018**, 9, 2959-2971 | 5.7 | 33 |
| 20 | O2-02-02: TARGETING AMYLOID FORMATION USING RATIONALLY DESIGNED ANTIBODIES **2018**, 14, P611-P611 | | |
| 19 | Multistep Inhibition of □Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. *ACS Chemical Biology*, **2018**, 13, 2308-2319 | 4.9 | 52 |
| 18 | Systematic development of small molecules to inhibit specific microscopic steps of A□42 aggregation in Alzheimer's disease. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E200-E208 | 11.5 | 134 |
| 17 | Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. *Scientific Reports*, **2017**, 7, 15045 | 4.9 | 11 |
| 16 | Chaperones as Suppressors of Protein Misfolded Oligomer Toxicity. *Frontiers in Molecular Neuroscience*, **2017**, 10, 98 | 6.1 | 29 |
| 15 | Effect of molecular chaperones on aberrant protein oligomers in vitro: super-versus sub-stoichiometric chaperone concentrations. *Biological Chemistry*, **2016**, 397, 401-15 | 4.5 | 18 |
| 14 | Bis(indolyl)phenylmethane derivatives are effective small molecules for inhibition of amyloid fibril formation by hen lysozyme. *European Journal of Medicinal Chemistry*, **2016**, 124, 361-371 | 6.8 | 14 |
| 13 | SERS Detection of Amyloid Oligomers on Metallorganic-Decorated Plasmonic Beads. *ACS Applied Materials & Interfaces*, **2015**, 7, 9420-8 | 9.5 | 71 |
| 12 | Toxicity of protein oligomers is rationalized by a function combining size and surface hydrophobicity. *ACS Chemical Biology*, **2014**, 9, 2309-17 | 4.9 | 128 |
| 11 | Amyloid-□oligomer synaptotoxicity is mimicked by oligomers of the model protein HypF-N. *Neurobiology of Aging*, **2013**, 34, 2100-9 | 5.6 | 26 |
| 10 | Transthyretin suppresses the toxicity of oligomers formed by misfolded proteins in vitro. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2013**, 1832, 2302-14 | 6.9 | 55 |
| 9 | Glycosaminoglycans (GAGs) suppress the toxicity of HypF-N prefibrillar aggregates. *Journal of Molecular Biology*, **2012**, 421, 616-30 | 6.5 | 16 |
| 8 | Salt anions promote the conversion of HypF-N into amyloid-like oligomers and modulate the structure of the oligomers and the monomeric precursor state. *Journal of Molecular Biology*, **2012**, 424, 132-49 | 6.5 | 22 |
| 7 | Molecular mechanisms used by chaperones to reduce the toxicity of aberrant protein oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12479-84 | 11.5 | 121 |
| 6 | Large proteins have a great tendency to aggregate but a low propensity to form amyloid fibrils. *PLoS ONE*, **2011**, 6, e16075 | 3.7 | 41 |
| 5 | A comparison of the biochemical modifications caused by toxic and non-toxic protein oligomers in cells. *Journal of Cellular and Molecular Medicine*, **2011**, 15, 2106-16 | 5.6 | 46 |

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| 4 | The induction of β-helical structure in partially unfolded HypF-N does not affect its aggregation propensity. *Protein Engineering, Design and Selection*, **2011**, 24, 553-63 | 1.9 | 7 |
| 3 | A causative link between the structure of aberrant protein oligomers and their toxicity. *Nature Chemical Biology*, **2010**, 6, 140-7 | 11.7 | 443 |
| 2 | Low-level expression of a folding-incompetent protein in Escherichia coli: search for the molecular determinants of protein aggregation in vivo. *Journal of Molecular Biology*, **2010**, 398, 600-13 | 6.5 | 20 |
| 1 | Small molecule sequestration of amyloid-β as a drug discovery strategy for Alzheimer's disease | | 4 |