Michele Perni

List of Publications by Citations

30 papers	1,277 citations	15 h-index	35 g-index
36 ext. papers	1,703 ext. citations	9 avg, IF	4.01 L-index

#	Paper	IF	Citations
30	Structural basis of membrane disruption and cellular toxicity by □synuclein oligomers. *Science*, **2017**, 358, 1440-1443	33.3	301
29	A natural product inhibits the initiation of □synuclein aggregation and suppresses its toxicity. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E1009-E1017	11.5	177
28	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
27	An anticancer drug suppresses the primary nucleation reaction that initiates the production of the toxic A□42 aggregates linked with Alzheimer's disease. *Science Advances*, **2016**, 2, e1501244	14.3	133
26	Selective targeting of primary and secondary nucleation pathways in A□42 aggregation using a rational antibody scanning method. *Science Advances*, **2017**, 3, e1700488	14.3	81
25	Trodusquemine enhances A□aggregation but suppresses its toxicity by displacing oligomers from cell membranes. *Nature Communications*, **2019**, 10, 225	17.4	69
24	TDP-43 inclusion bodies formed in bacteria are structurally amorphous, non-amyloid and inherently toxic to neuroblastoma cells. *PLoS ONE*, **2014**, 9, e86720	3.7	54
23	Multistep Inhibition of □Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. *ACS Chemical Biology*, **2018**, 13, 2308-2319	4.9	52
22	Massively parallel C. elegans tracking provides multi-dimensional fingerprints for phenotypic discovery. *Journal of Neuroscience Methods*, **2018**, 306, 57-67	3	35
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	Small-molecule sequestration of amyloid-□as a drug discovery strategy for Alzheimer's disease. *Science Advances*, **2020**, 6,	14.3	28
19	Rational design of a conformation-specific antibody for the quantification of A□oligomers. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 13509-13518	11.5	26
18	Trodusquemine displaces protein misfolded oligomers from cell membranes and abrogates their cytotoxicity through a generic mechanism. *Communications Biology*, **2020**, 3, 435	6.7	23
17	Probing the Origin of the Toxicity of Oligomeric Aggregates of □Synuclein with Antibodies. *ACS Chemical Biology*, **2019**, 14, 1352-1362	4.9	20
16	Fast Fluorescence Lifetime Imaging Reveals the Aggregation Processes of □Synuclein and Polyglutamine in Aging. *ACS Chemical Biology*, **2019**, 14, 1628-1636	4.9	17
15	Enhancement of the Anti-Aggregation Activity of a Molecular Chaperone Using a Rationally Designed Post-Translational Modification. *ACS Central Science*, **2019**, 5, 1417-1424	16.8	11
14	Delivery of Native Proteins into C. elegans Using a Transduction Protocol Based on Lipid Vesicles. *Scientific Reports*, **2017**, 7, 15045	4.9	11

List of Publications

13	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
12	Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Science Advances*, **2019**, 5, eaax5108	14.3	10
11	Assessing motor-related phenotypes of Caenorhabditis elegans with the wide field-of-view nematode tracking platform. *Nature Protocols*, **2020**, 15, 2071-2106	18.8	8
10	Cytosolic aggregation of mitochondrial proteins disrupts cellular homeostasis by stimulating the aggregation of other proteins. *ELife*, **2021**, 10,	8.9	8
9	C. elegans expressing D76N β-microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis. *Scientific Reports*, **2019**, 9, 19960	4.9	6
8	Automated Behavioral Analysis of Large C. elegans Populations Using a Wide Field-of-view Tracking Platform. *Journal of Visualized Experiments*, **2018**,	1.6	6
7	A dopamine metabolite stabilizes neurotoxic amyloid-β oligomers. *Communications Biology*, **2021**, 4, 19	6.7	6
6	Comparative Studies in the A30P and A53T α-Synuclein Strains to Investigate the Molecular Origins of Parkinson's Disease. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 552549	5.7	5
5	Small molecule sequestration of amyloid-β as a drug discovery strategy for Alzheimer's disease		4
4	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
3	Cytosolic aggregation of mitochondrial proteins disrupts cellular homeostasis by stimulating the aggregation of other proteins		2
2	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
1	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