Celine Galvagnion

List of Publications by Citations

27 papers	2,449 citations	19 h-index	31 g-index
31 ext. papers	3,067 ext. citations	8.1 avg, IF	5.17 L-index

#	Paper	IF	Citations
27	Solution conditions determine the relative importance of nucleation and growth processes in α-synuclein aggregation. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7671-6	11.5	395
26	Lipid vesicles trigger α-synuclein aggregation by stimulating primary nucleation. *Nature Chemical Biology*, **2015**, 11, 229-34	11.7	355
25	A natural product inhibits the initiation of α-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
24	Chemical properties of lipids strongly affect the kinetics of the membrane-induced aggregation of α-synuclein. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7065-70	11.5	164
23	Mutations associated with familial Parkinson's disease alter the initiation and amplification steps of α-synuclein aggregation. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 10328-33	11.5	159
22	Ostwald's rule of stages governs structural transitions and morphology of dipeptide supramolecular polymers. *Nature Communications*, **2014**, 5, 5219	17.4	150
21	α-Synuclein senses lipid packing defects and induces lateral expansion of lipids leading to membrane remodeling. *Journal of Biological Chemistry*, **2013**, 288, 20883-20895	5.4	141
20	Direct observation of heterogeneous amyloid fibril growth kinetics via two-color super-resolution microscopy. *Nano Letters*, **2014**, 14, 339-45	11.5	127
19	Cholesterol catalyses Aβ42 aggregation through a heterogeneous nucleation pathway in the presence of lipid membranes. *Nature Chemistry*, **2018**, 10, 673-683	17.6	126
18	The Role of Lipids Interacting with α-Synuclein in the Pathogenesis of Parkinson's Disease. *Journal of Parkinson's Disease*, **2017**, 7, 433-450	5.3	117
17	Targeting the intrinsically disordered structural ensemble of α-synuclein by small molecules as a potential therapeutic strategy for Parkinson's disease. *PLoS ONE*, **2014**, 9, e87133	3.7	98
16	The inverted free energy landscape of an intrinsically disordered peptide by simulations and experiments. *Scientific Reports*, **2015**, 5, 15449	4.9	84
15	Conformational stability and folding mechanisms of dimeric proteins. *Progress in Biophysics and Molecular Biology*, **2008**, 98, 61-84	4.7	78
14	Multistep Inhibition of α-Synuclein Aggregation and Toxicity in Vitro and in Vivo by Trodusquemine. *ACS Chemical Biology*, **2018**, 13, 2308-2319	4.9	52
13	α-Synuclein suppresses both the initiation and amplification steps of α-synuclein aggregation via competitive binding to surfaces. *Scientific Reports*, **2016**, 6, 36010	4.9	45
12	An engineered monomer binding-protein for α-synuclein efficiently inhibits the proliferation of amyloid fibrils. *ELife*, **2019**, 8,	8.9	37
11	C-terminal truncation of α-synuclein promotes amyloid fibril amplification at physiological pH. *Chemical Science*, **2018**, 9, 5506-5516	9.4	34

List of Publications

10	Discovery of a small-molecule binder of the oncoprotein gankyrin that modulates gankyrin activity in the cell. *Scientific Reports*, **2016**, 6, 23732	4.9	22
9	Lipid Dynamics and Phase Transition within Synuclein Amyloid Fibrils. *Journal of Physical Chemistry Letters*, **2019**, 10, 7872-7877	6.4	19
8	The interplay between Glucocerebrosidase, synuclein and lipids in human models of Parkinsons disease. *Biophysical Chemistry*, **2021**, 273, 106534	3.5	17
7	Microfluidic Diffusion Platform for Characterizing the Sizes of Lipid Vesicles and the Thermodynamics of Protein-Lipid Interactions. *Analytical Chemistry*, **2018**, 90, 3284-3290	7.8	16
6	Kinetic barriers to synuclein protofilament formation and conversion into mature fibrils. *Chemical Communications*, **2018**, 54, 7854-7857	5.8	14
5	Folding and association of thermophilic dimeric and trimeric DsrEFH proteins: Tm0979 and Mth1491. *Biochemistry*, **2009**, 48, 2891-906	3.2	11
4	Capillary flow experiments for thermodynamic and kinetic characterization of protein liquid-liquid phase separation.. *Nature Communications*, **2021**, 12, 7289	17.4	5
3	Production and initial structural characterization of the TM4TM5 helix-loop-helix domain of the translocator protein. *Journal of Peptide Science*, **2013**, 19, 102-9	2.1	3
2	Sphingolipid changes in Parkinson L444P GBA mutation fibroblasts promote synuclein aggregation		2
1	Sphingolipid changes in Parkinson L444P GBA mutation fibroblasts promote synuclein aggregation.. *Brain*, **2022**,	11.2	1