

# Jean-Christophe Rochet

## 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.

80  
papers

9,324  
citations

35  
h-index

85  
g-index

85  
ext. papers

10,263  
ext. citations

7.2  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
80	Alpha-synuclein blocks ER-Golgi traffic and Rab1 rescues neuron loss in Parkinson's models. <i>Science</i> , <b>2006</b> , 313, 324-8	33.3	1084
79	Amyloid fibrillogenesis: themes and variations. <i>Current Opinion in Structural Biology</i> , <b>2000</b> , 10, 60-8	8.1	977
78	Kinetic stabilization of the alpha-synuclein protofibril by a dopamine-alpha-synuclein adduct. <i>Science</i> , <b>2001</b> , 294, 1346-9	33.3	968
77	Sirtuin 2 inhibitors rescue alpha-synuclein-mediated toxicity in models of Parkinson's disease. <i>Science</i> , <b>2007</b> , 317, 516-9	33.3	844
76	Vesicle permeabilization by protofibrillar alpha-synuclein: implications for the pathogenesis and treatment of Parkinson's disease. <i>Biochemistry</i> , <b>2001</b> , 40, 7812-9	3.2	599
75	PGC-1 $\alpha$ potential therapeutic target for early intervention in Parkinson's disease. <i>Science Translational Medicine</i> , <b>2010</b> , 2, 52ra73	17.5	546
74	Alpha-synuclein is part of a diverse and highly conserved interaction network that includes PARK9 and manganese toxicity. <i>Nature Genetics</i> , <b>2009</b> , 41, 308-15	36.3	451
73	The Parkinson's disease protein alpha-synuclein disrupts cellular Rab homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 145-50	11.5	415
72	Annular alpha-synuclein protofibrils are produced when spherical protofibrils are incubated in solution or bound to brain-derived membranes. <i>Biochemistry</i> , <b>2002</b> , 41, 10209-17	3.2	327
71	$\alpha$ -Adrenoreceptor is a regulator of the $\beta$ synuclein gene driving risk of Parkinson's disease. <i>Science</i> , <b>2017</b> , 357, 891-898	33.3	238
70	Acid $\beta$ glucosidase mutants linked to Gaucher disease, Parkinson disease, and Lewy body dementia alter $\beta$ synuclein processing. <i>Annals of Neurology</i> , <b>2011</b> , 69, 940-53	9.4	236
69	Inhibition of fibrillization and accumulation of prefibrillar oligomers in mixtures of human and mouse alpha-synuclein. <i>Biochemistry</i> , <b>2000</b> , 39, 10619-26	3.2	209
68	Yeast reveal a "druggable" Rsp5/Nedd4 network that ameliorates $\beta$ synuclein toxicity in neurons. <i>Science</i> , <b>2013</b> , 342, 979-83	33.3	188
67	Interactions among alpha-synuclein, dopamine, and biomembranes: some clues for understanding neurodegeneration in Parkinson's disease. <i>Journal of Molecular Neuroscience</i> , <b>2004</b> , 23, 23-34	3.3	154
66	Small heat shock proteins protect against alpha-synuclein-induced toxicity and aggregation. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 351, 631-8	3.4	148
65	Compounds from an unbiased chemical screen reverse both ER-to-Golgi trafficking defects and mitochondrial dysfunction in Parkinson's disease models. <i>DMM Disease Models and Mechanisms</i> , <b>2010</b> , 3, 194-208	4.1	147
64	Neuroprotective effects of anthocyanin- and proanthocyanidin-rich extracts in cellular models of Parkinson's disease. <i>Brain Research</i> , <b>2014</b> , 1555, 60-77	3.7	125

63	Helical alpha-synuclein forms highly conductive ion channels. <i>Biochemistry</i> , <b>2007</b> , 46, 14369-79	3.2	106
62	Targeting the intrinsically disordered structural ensemble of $\beta$ synuclein by small molecules as a potential therapeutic strategy for Parkinson's disease. <i>PLoS ONE</i> , <b>2014</b> , 9, e87133	3.7	98
61	The N-terminal repeat domain of alpha-synuclein inhibits beta-sheet and amyloid fibril formation. <i>Biochemistry</i> , <b>2003</b> , 42, 672-8	3.2	98
60	Novel therapeutic strategies for the treatment of protein-misfolding diseases. <i>Expert Reviews in Molecular Medicine</i> , <b>2007</b> , 9, 1-34	6.7	93
59	Methionine sulfoxide reductase A protects dopaminergic cells from Parkinson's disease-related insults. <i>Free Radical Biology and Medicine</i> , <b>2008</b> , 45, 242-55	7.8	85
58	Mechanisms of DJ-1 neuroprotection in a cellular model of Parkinson's disease. <i>Journal of Neurochemistry</i> , <b>2008</b> , 105, 2435-53	6	82
57	Reusable photocatalytic titanium dioxide-cellulose nanofiber films. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 399, 92-8	9.3	62
56	Molecular insights into Parkinson's disease. <i>Progress in Molecular Biology and Translational Science</i> , <b>2012</b> , 107, 125-88	4	59
55	Effects of impaired membrane interactions on $\beta$ synuclein aggregation and neurotoxicity. <i>Neurobiology of Disease</i> , <b>2015</b> , 79, 150-63	7.5	55
54	Clustering of alpha-synuclein on supported lipid bilayers: role of anionic lipid, protein, and divalent ion concentration. <i>Biophysical Journal</i> , <b>2009</b> , 96, 540-51	2.9	53
53	Identification of rotenone-induced modifications in alpha-synuclein using affinity pull-down and tandem mass spectrometry. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2422-31	7.8	53
52	Overexpression of alpha-synuclein at non-toxic levels increases dopaminergic cell death induced by copper exposure via modulation of protein degradation pathways. <i>Neurobiology of Disease</i> , <b>2015</b> , 81, 76-92	7.5	47
51	Cyclin-G-associated kinase modifies $\beta$ synuclein expression levels and toxicity in Parkinson's disease: results from the GenePD Study. <i>Human Molecular Genetics</i> , <b>2011</b> , 20, 1478-87	5.6	47
50	Destabilization of DJ-1 by familial substitution and oxidative modifications: implications for Parkinson's disease. <i>Biochemistry</i> , <b>2007</b> , 46, 5776-89	3.2	45
49	Effect of spermidine on misfolding and interactions of alpha-synuclein. <i>PLoS ONE</i> , <b>2012</b> , 7, e38099	3.7	43
48	Direct Detection of $\beta$ synuclein Dimerization Dynamics: Single-Molecule Fluorescence Analysis. <i>Biophysical Journal</i> , <b>2015</b> , 108, 2038-47	2.9	36
47	Adsorption of alpha-synuclein on lipid bilayers: modulating the structure and stability of protein assemblies. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4070-81	3.4	36
46	$\beta$ synuclein-induced tubule formation in lipid bilayers. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 5886-93	3.4	35

45	A novel pathway for amyloids self-assembly in aggregates at nanomolar concentration mediated by the interaction with surfaces. <i>Scientific Reports</i> , <b>2017</b> , 7, 45592	4.9	34
44	βSynuclein misfolding assessed with single molecule AFM force spectroscopy: effect of pathogenic mutations. <i>Biochemistry</i> , <b>2013</b> , 52, 7377-86	3.2	33
43	In vitro study of βSynuclein protofibrils by cryo-EM suggests a Cu(2+)-dependent aggregation pathway. <i>Biophysical Journal</i> , <b>2013</b> , 104, 2706-13	2.9	30
42	Effect of ions on the organization of phosphatidylcholine/phosphatidic acid bilayers. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1630-8	2.9	28
41	Identification of glutamate 344 as the catalytic residue in the active site of pig heart CoA transferase. <i>Protein Science</i> , <b>1994</b> , 3, 975-81	6.3	28
40	Endosulfine-α inhibits membrane-induced βSynuclein aggregation and protects against βSynuclein neurotoxicity. <i>Acta Neuropathologica Communications</i> , <b>2017</b> , 5, 3	7.3	24
39	Hsp31 Is a Stress Response Chaperone That Intervenes in the Protein Misfolding Process. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 24816-34	5.4	23
38	Nortriptyline inhibits aggregation and neurotoxicity of alpha-synuclein by enhancing reconfiguration of the monomeric form. <i>Neurobiology of Disease</i> , <b>2017</b> , 106, 191-204	7.5	22
37	Effect of acidic pH on the stability of βSynuclein dimers. <i>Biopolymers</i> , <b>2016</b> , 105, 715-24	2.2	21
36	Assembly of βSynuclein aggregates on phospholipid bilayers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2019</b> , 1867, 802-812	4	20
35	Acrolein-mediated neuronal cell death and alpha-synuclein aggregation: Implications for Parkinson's disease. <i>Molecular and Cellular Neurosciences</i> , <b>2018</b> , 88, 70-82	4.8	20
34	2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) is selectively toxic to primary dopaminergic neurons in vitro. <i>Toxicological Sciences</i> , <b>2014</b> , 140, 179-89	4.4	19
33	Nepalese traditional medicine and symptoms related to Parkinson's disease and other disorders: Patterns of the usage of plant resources along the Himalayan altitudinal range. <i>Journal of Ethnopharmacology</i> , <b>2014</b> , 153, 178-89	5	18
32	Effect of single amino acid substitution on oxidative modifications of the Parkinson's disease-related protein, DJ-1. <i>Molecular and Cellular Proteomics</i> , <b>2012</b> , 11, M111.010892	7.6	18
31	Lumbee traditional medicine: Neuroprotective activities of medicinal plants used to treat Parkinson's disease-related symptoms. <i>Journal of Ethnopharmacology</i> , <b>2017</b> , 206, 408-425	5	17
30	Selective dopaminergic neurotoxicity of three heterocyclic amine subclasses in primary rat midbrain neurons. <i>NeuroToxicology</i> , <b>2018</b> , 65, 68-84	4.4	17
29	Alpha-Synuclein Is a Target of Fic-Mediated Adenylylation/AMPylation: Possible Implications for Parkinson's Disease. <i>Journal of Molecular Biology</i> , <b>2019</b> , 431, 2266-2282	6.5	15
28	Pig heart CoA transferase exists as two oligomeric forms separated by a large kinetic barrier. <i>Biochemistry</i> , <b>2000</b> , 39, 11291-302	3.2	15

27	Novel Small Molecules Targeting the Intrinsically Disordered Structural Ensemble of $\beta$ Synuclein Protect Against Diverse $\beta$ Synuclein Mediated Dysfunctions. <i>Scientific Reports</i> , <b>2019</b> , 9, 16947	4.9	14
26	Expression and Transport of $\beta$ Synuclein at the Blood-Cerebrospinal Fluid Barrier and Effects of Manganese Exposure. <i>ADMET and DMPK</i> , <b>2015</b> , 3, 15-33	1.3	13
25	Pikuni-Blackfeet traditional medicine: Neuroprotective activities of medicinal plants used to treat Parkinson's disease-related symptoms. <i>Journal of Ethnopharmacology</i> , <b>2017</b> , 206, 393-407	5	12
24	DJ-1 can form $\beta$ sheet structured aggregates that co-localize with pathological amyloid deposits. <i>Neurobiology of Disease</i> , <b>2020</b> , 134, 104629	7.5	10
23	Printed optics: phantoms for quantitative deep tissue fluorescence imaging. <i>Optics Letters</i> , <b>2016</b> , 41, 5230-5233	3	10
22	Productive interactions between the two domains of pig heart CoA transferase during folding and assembly. <i>Biochemistry</i> , <b>1997</b> , 36, 8807-20	3.2	8
21	Identification of the cysteine residue exposed by the conformational change in pig heart succinyl-CoA:3-ketoacid coenzyme A transferase on binding coenzyme A. <i>Biochemistry</i> , <b>2007</b> , 46, 10852-63	3.2	8
20	Neuromelanin Modulates Heterocyclic Aromatic Amine-Induced Dopaminergic Neurotoxicity. <i>Toxicological Sciences</i> , <b>2020</b> , 173, 171-188	4.4	8
19	Cu(II) promotes amyloid pore formation. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 464, 342-7	3.4	7
18	Calcein Release Assay to Measure Membrane Permeabilization by Recombinant Alpha-Synuclein. <i>Bio-protocol</i> , <b>2020</b> , 10,	0.9	6
17	Path dependence of three-phase or two-phase end points in fluid binary lipid mixtures. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 3431-6	3.4	5
16	Dietary Phytochemicals in Neurodegenerative Disease <b>2017</b> , 361-391		4
15	Errors in translation cause selective neurodegeneration. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 562-6	4.9	4
14	Inhibition of $\beta$ Synuclein Aggregation by Antioxidants and Chaperones in Parkinson's Disease. <i>Focus on Structural Biology</i> , <b>2009</b> , 175-206		4
13	Tuning a Bisphenol A Lateral Flow Assay Using Multiple Gold Nanosystems. <i>Particle and Particle Systems Characterization</i> , <b>2019</b> , 36, 1900133	3.1	3
12	New insights into lysosomal dysfunction in Parkinson's disease: an emerging role for ATP13A2. <i>Movement Disorders</i> , <b>2012</b> , 27, 1092	7	3
11	Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant. <i>Journal of Neuroscience</i> , <b>2021</b> , 41, 10194-10208	6.6	3
10	Two C-terminal sequence variations determine differential neurotoxicity between human and mouse $\beta$ Synuclein. <i>Molecular Neurodegeneration</i> , <b>2020</b> , 15, 49	19	3

9	Monitoring phagocytic uptake of amyloid $\beta$ into glial cell lysosomes in real time. <i>Chemical Science</i> , <b>2021</b> , 12, 10901-10918	9.4	3
8	Phospholipid membranes promote the early stage assembly of $\beta$ synuclein aggregates		2
7	Localization of Fluorescent Targets in Deep Tissue With Expanded Beam Illumination for Studies of Cancer and the Brain. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2472-2481	11.7	1
6	The use of cell-free systems to characterize parkinson's disease-related gene products <b>2008</b> , 597-627		1
5	Printed optics: phantoms for quantitative deep tissue fluorescence imaging: publisher's note. <i>Optics Letters</i> , <b>2016</b> , 41, 5575	3	1
4	Shining a light on autophagy in neurodegenerative diseases. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 1014374	3.4	0
3	AMPylation/Adenylation of Alpha-synuclein by HYPE/FICD. <i>Bio-protocol</i> , <b>2020</b> , 10, e3760	0.9	0
2	Neuroprotective mechanisms of red clover and soy isoflavones in Parkinson's disease models. <i>Food and Function</i> , <b>2021</b> , 12, 11987-12007	6.1	0
1	Role of Aberrant $\beta$ synuclein Membrane Interactions in Parkinson's Disease <b>2014</b> , 443-452		