

Ronald Melki

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

8,349
citations

71102

41
h-index

74163

75
g-index

84
all docs

84
docs citations

84
times ranked

8358
citing authors

#	ARTICLE	IF	CITATIONS
1	Î±-Synuclein propagates from mouse brain to grafted dopaminergic neurons and seeds aggregation in cultured human cells. <i>Journal of Clinical Investigation</i> , 2011, 121, 715-725.	8.2	722
2	Structural and functional characterization of two alpha-synuclein strains. <i>Nature Communications</i> , 2013, 4, 2575.	12.8	721
3	Prion-like transmission of protein aggregates in neurodegenerative diseases. <i>Nature Reviews Molecular Cell Biology</i> , 2010, 11, 301-307.	37.0	640
4	G51D Î±-synuclein mutation causes a novel Parkinsonian "pyramidal syndrome. <i>Annals of Neurology</i> , 2013, 73, 459-471.	5.3	580
5	Cytoplasmic penetration and persistent infection of mammalian cells by polyglutamine aggregates. <i>Nature Cell Biology</i> , 2009, 11, 219-225.	10.3	385
6	Neuron-to-neuron transmission of Î±-synuclein fibrils through axonal transport. <i>Annals of Neurology</i> , 2012, 72, 517-524.	5.3	305
7	Tunneling nanotubes spread fibrillar Î±-synuclein by intercellular trafficking of lysosomes. <i>EMBO Journal</i> , 2016, 35, 2120-2138.	7.8	286
8	Transfer of human Î±-synuclein from the olfactory bulb to interconnected brain regions in mice. <i>Acta Neuropathologica</i> , 2013, 126, 555-573.	7.7	224
9	Fibrillar Î±-Synuclein and Huntingtin Exon 1 Assemblies Are Toxic to the Cells. <i>Biophysical Journal</i> , 2012, 102, 2894-2905.	0.5	220
10	Two new polymorphic structures of human full-length alpha-synuclein fibrils solved by cryo-electron microscopy. <i>ELife</i> , 2019, 8, .	6.0	220
11	Prying into the Prion Hypothesis for Parkinson's Disease. <i>Journal of Neuroscience</i> , 2017, 37, 9808-9818.	3.6	213
12	Tunneling nanotube (TNT)-mediated neuron-to neuron transfer of pathological Tau protein assemblies. <i>Acta Neuropathologica Communications</i> , 2016, 4, 117.	5.2	207
13	Endocytic vesicle rupture is a conserved mechanism of cellular invasion by amyloid proteins. <i>Acta Neuropathologica</i> , 2017, 134, 629-653.	7.7	201
14	Î±-synuclein oligomers and fibrils: a spectrum of species, a spectrum of toxicities. <i>Journal of Neurochemistry</i> , 2019, 150, 522-534.	3.9	201
15	Î±-Synuclein transfer between neurons and astrocytes indicates that astrocytes play a role in degradation rather than in spreading. <i>Acta Neuropathologica</i> , 2017, 134, 789-808.	7.7	182
16	Î±-synuclein assemblies sequester neuronal Na ⁺ /K ⁺ -ATPase and impair Na ⁺ gradient. <i>EMBO Journal</i> , 2015, 34, 2408-2423.	7.8	177
17	The structural differences between patient-derived Î±-synuclein strains dictate characteristics of Parkinson's disease, multiple system atrophy and dementia with Lewy bodies. <i>Acta Neuropathologica</i> , 2020, 139, 977-1000.	7.7	149
18	The S/T-Rich Motif in the DNAJB6 Chaperone Delays Polyglutamine Aggregation and the Onset of Disease in a Mouse Model. <i>Molecular Cell</i> , 2016, 62, 272-283.	9.7	140

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19	Axonal transport and secretion of fibrillar forms of α -synuclein, A β 242 peptide and HTTExon 1. <i>Acta Neuropathologica</i> , 2016, 131, 539-548.	7.7	127
20	Structural and functional properties of prefibrillar α -synuclein oligomers. <i>Scientific Reports</i> , 2016, 6, 24526.	3.3	125
21	Role of Different Alpha-Synuclein Strains in Synucleinopathies, Similarities with other Neurodegenerative Diseases. <i>Journal of Parkinson's Disease</i> , 2015, 5, 217-227.	2.8	107
22	Hsc70 Protein Interaction with Soluble and Fibrillar α -Synuclein. <i>Journal of Biological Chemistry</i> , 2011, 286, 34690-34699.	3.4	103
23	Molecular chaperones and the assembly of the prion Sup35p, an in vitro study. <i>EMBO Journal</i> , 2006, 25, 822-833.	7.8	101
24	Propagation of α -Synuclein Strains within Human Reconstructed Neuronal Network. <i>Stem Cell Reports</i> , 2019, 12, 230-244.	4.8	99
25	Increased Immune Activation by Pathologic α -Synuclein in Parkinson's Disease. <i>Annals of Neurology</i> , 2019, 86, 593-606.	5.3	95
26	PA700, the regulatory complex of the 26S proteasome, interferes with α -synuclein assembly. <i>FEBS Journal</i> , 2005, 272, 4023-4033.	4.7	83
27	Physico-Pathologic Mechanisms Involved in Neurodegeneration: Misfolded Protein-Plasma Membrane Interactions. <i>Neuron</i> , 2017, 95, 33-50.	8.1	83
28	β -amyloid and ATP-induced diffusional trapping of astrocyte and neuronal metabotropic glutamate type-5 receptors. <i>Glia</i> , 2013, 61, 1673-1686.	4.9	80
29	Alpha-synuclein research: defining strategic moves in the battle against Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2021, 7, 65.	5.3	74
30	Molecular Interaction between the Chaperone Hsc70 and the N-terminal Flank of Huntingtin Exon 1 Modulates Aggregation. <i>Journal of Biological Chemistry</i> , 2015, 290, 2560-2576.	3.4	73
31	α -Synuclein conformational strains spread, seed and target neuronal cells differentially after injection into the olfactory bulb. <i>Acta Neuropathologica Communications</i> , 2019, 7, 221.	5.2	70
32	The native-like conformation of Ure2p in fibrils assembled under physiologically relevant conditions switches to an amyloid-like conformation upon heat-treatment of the fibrils. <i>Journal of Structural Biology</i> , 2003, 141, 132-142.	2.8	68
33	Differential Membrane Binding and Seeding of Distinct α -Synuclein Fibrillar Polymorphs. <i>Biophysical Journal</i> , 2020, 118, 1301-1320.	0.5	59
34	Endogenous alpha-synuclein monomers, oligomers and resulting pathology: let's talk about the lipids in the room. <i>Npj Parkinson's Disease</i> , 2019, 5, 23.	5.3	57
35	Structural Characterization of the Fibrillar Form of the Yeast <i>Saccharomyces cerevisiae</i> Prion Ure2p. <i>Biochemistry</i> , 2004, 43, 5022-5032.	2.5	54
36	Alpha-synuclein spreading in M83 mice brain revealed by detection of pathological α -synuclein by enhanced ELISA. <i>Acta Neuropathologica Communications</i> , 2014, 2, 29.	5.2	53

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37	The expression level of alpha-synuclein in different neuronal populations is the primary determinant of its prion-like seeding. <i>Scientific Reports</i> , 2020, 10, 4895.	3.3	53
38	Nanomechanical properties of distinct fibrillar polymorphs of the protein α -synuclein. <i>Scientific Reports</i> , 2016, 6, 37970.	3.3	52
39	Phenotypic manifestation of α -synuclein strains derived from Parkinson's disease and multiple system atrophy in human dopaminergic neurons. <i>Nature Communications</i> , 2021, 12, 3817.	12.8	52
40	Biochemical and Functional Analysis of the Assembly of Full-length Sup35p and Its Prion-forming Domain. <i>Journal of Biological Chemistry</i> , 2007, 282, 1679-1686.	3.4	49
41	Fibrillar Structure and Charge Determine the Interaction of Polyglutamine Protein Aggregates with the Cell Surface. <i>Journal of Biological Chemistry</i> , 2012, 287, 29722-29728.	3.4	48
42	LAG3 is not expressed in human and murine neurons and does not modulate α -synucleinopathies. <i>EMBO Molecular Medicine</i> , 2021, 13, e14745.	6.9	44
43	Methyl-branched lipids promote the membrane adsorption of α -synuclein by enhancing shallow lipid-packing defects. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15589-15597.	2.8	42
44	Sup35p in Its Soluble and Prion States Is Packaged inside Extracellular Vesicles. <i>MBio</i> , 2015, 6, .	4.1	42
45	Clustering of Tau fibrils impairs the synaptic composition of α -synuclein and α -synucleinase and AMPA receptors. <i>EMBO Journal</i> , 2019, 38, .	7.8	42
46	Identification of Protein Interfaces between α -Synuclein, the Principal Component of Lewy Bodies in Parkinson Disease, and the Molecular Chaperones Human Hsc70 and the Yeast Ssa1p. <i>Journal of Biological Chemistry</i> , 2012, 287, 32630-32639.	3.4	40
47	The Conformation of the Prion Domain of Sup35 ^p in Isolation and in the Full-length Protein. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12741-12744.	13.8	40
48	Further exploration of the conformational space of α -synuclein fibrils: solid-state NMR assignment of a high-pH polymorph. <i>Biomolecular NMR Assignments</i> , 2016, 10, 5-12.	0.8	36
49	Effect of tolytoxin on tunneling nanotube formation and function. <i>Scientific Reports</i> , 2019, 9, 5741.	3.3	36
50	KLK6 proteolysis is implicated in the turnover and uptake of extracellular alpha-synuclein species. <i>Oncotarget</i> , 2017, 8, 14502-14515.	1.8	36
51	α -Synuclein and huntingtin exon 1 amyloid fibrils bind laterally to the cellular membrane. <i>Scientific Reports</i> , 2016, 6, 19180.	3.3	35
52	Cell biology and dynamics of Neuronal Na ⁺ /K ⁺ -ATPase in health and diseases. <i>Neuropharmacology</i> , 2020, 169, 107461.	4.1	35
53	TNF- α and α -synuclein fibrils differently regulate human astrocyte immune reactivity and impair mitochondrial respiration. <i>Cell Reports</i> , 2021, 34, 108895.	6.4	35
54	How the shapes of seeds can influence pathology. <i>Neurobiology of Disease</i> , 2018, 109, 201-208.	4.4	34

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55	Cellular response of human neuroblastoma cells to α -synuclein fibrils, the main constituent of Lewy bodies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 8-19.	2.4	32
56	Molecular Chaperones and the Assembly of the Prion Ure2p in Vitro. <i>Journal of Biological Chemistry</i> , 2008, 283, 15732-15739.	3.4	31
57	A mutation within the C-terminal domain of Sup35p that affects [ψ] prion propagation. <i>Molecular Microbiology</i> , 2011, 81, 640-658.	2.5	29
58	A Novel Bio-Orthogonal Cross-Linker for Improved Protein/Protein Interaction Analysis. <i>Analytical Chemistry</i> , 2015, 87, 1853-1860.	6.5	24
59	Distinct α -synuclein species induced by seeding are selectively cleared by the Lysosome or the Proteasome in neuronally differentiated SH-SY5Y cells. <i>Journal of Neurochemistry</i> , 2021, 156, 880-896.	3.9	22
60	The interaction of Hsc70 protein with fibrillar α -Synuclein and its therapeutic potential in Parkinson's disease. <i>Communicative and Integrative Biology</i> , 2012, 5, 94-95.	1.4	20
61	Assessment of the efficacy of different procedures that remove and disassemble alpha-synuclein, tau and A-beta fibrils from laboratory material and surfaces. <i>Scientific Reports</i> , 2018, 8, 10788.	3.3	20
62	Microglial inclusions and neurofilament light chain release follow neuronal α -synuclein lesions in long-term brain slice cultures. <i>Molecular Neurodegeneration</i> , 2021, 16, 54.	10.8	20
63	Yeast prions assembly and propagation: Contributions of the prion and non-prion moieties and the nature of assemblies. <i>Prion</i> , 2011, 5, 277-284.	1.8	16
64	More than just trash bins? Potential roles for extracellular vesicles in the vertical and horizontal transmission of yeast prions. <i>Current Genetics</i> , 2016, 62, 265-270.	1.7	15
65	Endogenous Levels of Alpha-Synuclein Modulate Seeding and Aggregation in Cultured Cells. <i>Molecular Neurobiology</i> , 2022, 59, 1273-1284.	4.0	15
66	A prolonged chronological lifespan is an unexpected benefit of the [PSI ⁺] prion in yeast. <i>PLoS ONE</i> , 2017, 12, e0184905.	2.5	13
67	Data in support of the identification of neuronal and astrocyte proteins interacting with extracellularly applied oligomeric and fibrillar α -synuclein assemblies by mass spectrometry. <i>Data in Brief</i> , 2016, 7, 221-228.	1.0	10
68	Interaction of the chaperones alpha B-crystallin and CHIP with fibrillar alpha-synuclein: Effects on internalization by cells and identification of interacting interfaces. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 760-769.	2.1	8
69	Modelling α -Synuclein Aggregation and Neurodegeneration with Fibril Seeds in Primary Cultures of Mouse Dopaminergic Neurons. <i>Cells</i> , 2022, 11, 1640.	4.1	8
70	Dipeptide repeat derived from C9orf72 hexanucleotide expansions forms amyloids or natively unfolded structures in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2020, 526, 410-416.	2.1	7
71	C9ORF72-derived poly-GA DPRs undergo endocytic uptake in astrocytes and spread to motor neurons. <i>Life Science Alliance</i> , 2022, 5, e202101276.	2.8	6
72	The <i>Yarrowia lipolytica</i> orthologs of Sup35p assemble into thioflavin T-negative amyloid fibrils. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 533-539.	2.1	5

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73	Structural mapping techniques distinguish the surfaces of fibrillar 1N3R and 1N4R human tau. Journal of Biological Chemistry, 2021, 297, 101252.	3.4	4
74	Polypeptides derived from $\hat{I}\pm$ -Synuclein binding partners to prevent $\hat{I}\pm$ -Synuclein fibrils interaction with and take-up by cells. PLoS ONE, 2020, 15, e0237328.	2.5	3
75	The 26S Proteasome Degrades the Soluble but Not the Fibrillar Form of the Yeast Prion Ure2p In Vitro. PLoS ONE, 2015, 10, e0131789.	2.5	3
76	The multitude of therapeutic targets in neurodegenerative proteinopathies. , 2017, , 1-20.		1
77	Title is missing!. , 2020, 15, e0237328.		0
78	Title is missing!. , 2020, 15, e0237328.		0
79	Title is missing!. , 2020, 15, e0237328.		0
80	Title is missing!. , 2020, 15, e0237328.		0