

# Omar M A El-Agnaf

## List of Publications by Year in Descending Order

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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

6,806  
citations

35  
h-index

82  
g-index

84  
ext. papers

8,448  
ext. citations

6.9  
avg, IF

5.36  
L-index

#	Paper	IF	Citations
80	Prion-like $\beta$ synuclein pathology in the brain of infants with Krabbe disease.. <i>Brain</i> , <b>2022</b> ,	11.2	2
79	$\beta$ synuclein phosphorylation at serine 129 occurs after initial protein deposition and inhibits seeded fibril formation and toxicity.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2109617119	11.5	3
78	Rapid Assessment of CRISPR Transfection Efficiency and Enrichment of CRISPR Induced Mutations Using a Dual-Fluorescent Stable Reporter System.. <i>Frontiers in Genome Editing</i> , <b>2022</b> , 4, 854866	2.5	0
77	Identification of Novel Circulating miRNAs in Patients with Acute Ischemic Stroke.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	1
76	Immune-related biomarkers for Parkinson's disease. <i>Neurobiology of Disease</i> , <b>2022</b> , 170, 105771	7.5	1
75	Diagnostic, Prognostic, and Mechanistic Biomarkers of Diabetes Mellitus-Associated Cognitive Decline. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 6144	6.3	2
74	Age, Disease Severity and Ethnicity Influence Humoral Responses in a Multi-Ethnic COVID-19 Cohort. <i>Viruses</i> , <b>2021</b> , 13,	6.2	6
73	Cerebrospinal $\beta$ synuclein Oligomers Reflect Disease Motor Severity in DeNoPa Longitudinal Cohort. <i>Movement Disorders</i> , <b>2021</b> , 36, 2048-2056	7	3
72	RT-QuIC Using C-Terminally Truncated $\beta$ synuclein Forms Detects Differences in Seeding Propensity of Different Brain Regions from Synucleinopathies. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	2
71	An Optical and Temperature Assisted CMOS ISFET Sensor Array for Robust E. Coli Detection. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2021</b> , 15, 497-508	5.1	3
70	Natural Alkaloid Compounds as Inhibitors for Alpha-Synuclein Seeded Fibril Formation and Toxicity. <i>Molecules</i> , <b>2021</b> , 26,	4.8	5
69	Towards Acoustic Radiation Free Lamb Wave Resonators for High-Resolution Gravimetric Biosensing. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 2725-2733	4	5
68	Paving the Way toward Personalized Medicine: Current Advances and Challenges in Multi-OMICS Approach in Autism Spectrum Disorder for Biomarkers Discovery and Patient Stratification. <i>Journal of Personalized Medicine</i> , <b>2021</b> , 11,	3.6	6
67	Cerebrospinal Fluid $\beta$ -Synuclein Species in Cognitive and Movements Disorders. <i>Brain Sciences</i> , <b>2021</b> , 11,	3.4	2
66	Fibrillar form of $\beta$ synuclein-specific scFv antibody inhibits $\beta$ synuclein seeds induced aggregation and toxicity. <i>Scientific Reports</i> , <b>2020</b> , 10, 8137	4.9	4
65	Bidirectional gut-to-brain and brain-to-gut propagation of synucleinopathy in non-human primates. <i>Brain</i> , <b>2020</b> , 143, 1462-1475	11.2	60
64	CSF total and oligomeric $\beta$ synuclein along with TNF- $\alpha$ s risk biomarkers for Parkinson's disease: a study in LRRK2 mutation carriers. <i>Translational Neurodegeneration</i> , <b>2020</b> , 9, 15	10.3	11

63	Identification of distinct pathological signatures induced by patient-derived $\beta$ synuclein structures in nonhuman primates. <i>Science Advances</i> , <b>2020</b> , 6, eaaz9165	14.3	16
62	Inhibition of alpha-synuclein seeded fibril formation and toxicity by herbal medicinal extracts. <i>BMC Complementary Medicine and Therapies</i> , <b>2020</b> , 20, 73	2.9	12
61	Generation of monoclonal antibodies against phosphorylated $\beta$ synuclein at serine 129: Research tools for synucleinopathies. <i>Neuroscience Letters</i> , <b>2020</b> , 725, 134899	3.3	3
60	Investigating the presence of doubly phosphorylated $\beta$ synuclein at tyrosine 125 and serine 129 in idiopathic Lewy body diseases. <i>Brain Pathology</i> , <b>2020</b> , 30, 831-843	6	7
59	Plasma-derived therapy: can the survivors of COVID-19 help the defenseless?. <i>Diagnosis</i> , <b>2020</b> , 7, 373-376	4.2	1
58	Expression, purification and characterization of $\beta$ synuclein fibrillar specific scFv from inclusion bodies. <i>PLoS ONE</i> , <b>2020</b> , 15, e0241773	3.7	2
57	CSF or serum neurofilament light added to $\beta$ synuclein panel discriminates Parkinson's from controls. <i>Movement Disorders</i> , <b>2020</b> , 35, 288-295	7	28
56	Complex I reductions in the nucleus basalis of Meynert in Lewy body dementia: the role of Lewy bodies. <i>Acta Neuropathologica Communications</i> , <b>2020</b> , 8, 103	7.3	2
55	CSF Biomarkers Reflecting Protein Pathology and Axonal Degeneration Are Associated with Memory, Attentional, and Executive Functioning in Early-Stage Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	2
54	Tissue-Specific Delivery of CRISPR Therapeutics: Strategies and Mechanisms of Non-Viral Vectors. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	10
53	Dihydromyricetin and Salvianolic acid B inhibit alpha-synuclein aggregation and enhance chaperone-mediated autophagy. <i>Translational Neurodegeneration</i> , <b>2019</b> , 8, 18	10.3	27
52	Correlated levels of cerebrospinal fluid pathogenic proteins in drug-naïve Parkinson's disease. <i>BMC Neurology</i> , <b>2019</b> , 19, 113	3.1	5
51	Antibodies against alpha-synuclein: tools and therapies. <i>Journal of Neurochemistry</i> , <b>2019</b> , 150, 612-625	6	27
50	Ultrasonication-based rapid amplification of $\beta$ synuclein aggregates in cerebrospinal fluid. <i>Scientific Reports</i> , <b>2019</b> , 9, 6001	4.9	19
49	Systemic peptide mediated delivery of an siRNA targeting $\beta$ syn in the CNS ameliorates the neurodegenerative process in a transgenic model of Lewy body disease. <i>Neurobiology of Disease</i> , <b>2019</b> , 127, 163-177	7.5	14
48	CSF and blood biomarkers for Parkinson's disease. <i>Lancet Neurology</i> , <b>2019</b> , 18, 573-586	24.1	180
47	Antibody-based methods for the measurement of $\beta$ synuclein concentration in human cerebrospinal fluid - method comparison and round robin study. <i>Journal of Neurochemistry</i> , <b>2019</b> , 149, 126-138	6	26
46	Parkinson's disease biomarkers based on $\beta$ synuclein. <i>Journal of Neurochemistry</i> , <b>2019</b> , 150, 626-636	6	46

45	Heterogeneity in $\beta$ synuclein subtypes and their expression in cortical brain tissue lysates from Lewy body diseases and Alzheimer's disease. <i>Neuropathology and Applied Neurobiology</i> , <b>2019</b> , 45, 597-608	5.2	14
44	Lewy body-like alpha-synuclein inclusions trigger reactive microgliosis prior to nigral degeneration. <i>Journal of Neuroinflammation</i> , <b>2018</b> , 15, 129	10.1	82
43	$\beta$ synuclein species as potential cerebrospinal fluid biomarkers for dementia with lewy bodies. <i>Movement Disorders</i> , <b>2018</b> , 33, 1724-1733	7	49
42	Increased levels of CSF total but not oligomeric or phosphorylated forms of alpha-synuclein in patients diagnosed with probable Alzheimer's disease. <i>Scientific Reports</i> , <b>2017</b> , 7, 40263	4.9	32
41	Differential effects of immunotherapy with antibodies targeting $\beta$ synuclein oligomers and fibrils in a transgenic model of synucleinopathy. <i>Neurobiology of Disease</i> , <b>2017</b> , 104, 85-96	7.5	53
40	Validation of electrochemiluminescence assays for highly sensitive and reproducible quantification of $\beta$ synuclein in cerebrospinal fluid. <i>Bioanalysis</i> , <b>2017</b> , 9, 621-630	2.1	5
39	Diagnosis and management of dementia with Lewy bodies: Fourth consensus report of the DLB Consortium. <i>Neurology</i> , <b>2017</b> , 89, 88-100	6.5	1691
38	A user's guide for $\beta$ synuclein biomarker studies in biological fluids: Perianalytical considerations. <i>Movement Disorders</i> , <b>2017</b> , 32, 1117-1130	7	35
37	Phosphorylated exogenous alpha-synuclein fibrils exacerbate pathology and induce neuronal dysfunction in mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 16533	4.9	64
36	Early-onset parkinsonism in a pedigree with phosphoglycerate kinase deficiency and a heterozygous carrier: do mutations contribute to vulnerability to parkinsonism?. <i>Npj Parkinsons Disease</i> , <b>2017</b> , 3, 13	9.7	17
35	Cognitive impairment in Parkinson's disease. <i>Lancet Neurology, The</i> , <b>2017</b> , 16, 23-24	24.1	4
34	Longitudinal changes in CSF alpha-synuclein species reflect Parkinson's disease progression. <i>Movement Disorders</i> , <b>2016</b> , 31, 1535-1542	7	88
33	Glycation in Parkinson's disease and Alzheimer's disease. <i>Movement Disorders</i> , <b>2016</b> , 31, 782-90	7	74
32	Oligomeric and phosphorylated alpha-synuclein as potential CSF biomarkers for Parkinson's disease. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 7	19	140
31	Brain propagation of transduced $\beta$ synuclein involves non-fibrillar protein species and is enhanced in $\beta$ synuclein null mice. <i>Brain</i> , <b>2016</b> , 139, 856-70	11.2	62
30	A First Tetraplex Assay for the Simultaneous Quantification of Total $\beta$ synuclein, Tau, $\beta$ Amyloid42 and DJ-1 in Human Cerebrospinal Fluid. <i>PLoS ONE</i> , <b>2016</b> , 11, e0153564	3.7	6
29	P2-163: Performance Evaluation of New Absorbance-Based ElisAs for Measuring Different Alpha-Synuclein (A-SYN) Species in CSF and Plasma <b>2016</b> , 12, P677-P678		1
28	P4-316: Standardization of Pre-Analytical Procedures for Collection and Storage of CSF for the Measurement of Neurogranin Trunc P75 and a-Synuclein <b>2016</b> , 12, P1155-P1155		

27	A novel multiplex assay for simultaneous quantification of total and S129 phosphorylated human alpha-synuclein. <i>Molecular Neurodegeneration</i> , <b>2016</b> , 11, 61	19	24
26	Anti-aging treatments slow propagation of synucleinopathy by restoring lysosomal function. <i>Autophagy</i> , <b>2016</b> , 12, 1849-1863	10.2	40
25	Targeting $\beta$ synuclein as a therapeutic strategy for Parkinson's disease. <i>Expert Opinion on Therapeutic Targets</i> , <b>2015</b> , 19, 1351-60	6.4	15
24	Generation and characterization of novel conformation-specific monoclonal antibodies for $\beta$ synuclein pathology. <i>Neurobiology of Disease</i> , <b>2015</b> , 79, 81-99	7.5	83
23	Ser129 phosphorylation of endogenous $\beta$ synuclein induced by overexpression of polo-like kinases 2 and 3 in nigral dopamine neurons is not detrimental to their survival and function. <i>Neurobiology of Disease</i> , <b>2015</b> , 78, 100-14	7.5	12
22	Ginsenoside Rb1 inhibits fibrillation and toxicity of alpha-synuclein and disaggregates preformed fibrils. <i>Neurobiology of Disease</i> , <b>2015</b> , 74, 89-101	7.5	67
21	Decrease in plasma levels of $\beta$ synuclein is evident in patients with Parkinson's disease after elimination of heterophilic antibody interference. <i>PLoS ONE</i> , <b>2015</b> , 10, e0123162	3.7	37
20	Increased $\beta$ synuclein levels in the cerebrospinal fluid of patients with Creutzfeldt-Jakob disease. <i>Journal of Neurology</i> , <b>2014</b> , 261, 1203-9	5.5	29
19	The protective role of AMP-activated protein kinase in alpha-synuclein neurotoxicity in vitro. <i>Neurobiology of Disease</i> , <b>2014</b> , 63, 1-11	7.5	86
18	Cerebrospinal fluid lysosomal enzymes and alpha-synuclein in Parkinson's disease. <i>Movement Disorders</i> , <b>2014</b> , 29, 1019-27	7	175
17	Differential role of CSF alpha-synuclein species, tau, and A $\beta$ 2 in Parkinson's Disease. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 53	5.3	96
16	Elevated levels of cerebrospinal fluid $\beta$ synuclein oligomers in healthy asymptomatic LRRK2 mutation carriers. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 248	5.3	50
15	Structure activity relationship of phenolic acid inhibitors of $\beta$ synuclein fibril formation and toxicity. <i>Frontiers in Aging Neuroscience</i> , <b>2014</b> , 6, 197	5.3	78
14	$\beta$ synuclein levels in blood plasma from LRRK2 mutation carriers. <i>PLoS ONE</i> , <b>2012</b> , 7, e52312	3.7	30
13	Cerebrospinal fluid Tau/ $\beta$ synuclein ratio in Parkinson's disease and degenerative dementias. <i>Movement Disorders</i> , <b>2011</b> , 26, 1428-35	7	128
12	Baicalein inhibits formation of $\beta$ synuclein oligomers within living cells and prevents A $\beta$ peptide fibrillation and oligomerisation. <i>ChemBioChem</i> , <b>2011</b> , 12, 615-24	3.8	110
11	Detection of elevated levels of $\beta$ synuclein oligomers in CSF from patients with Parkinson disease. <i>Neurology</i> , <b>2010</b> , 75, 1766-72	6.5	369
10	Detection of elevated levels of soluble alpha-synuclein oligomers in post-mortem brain extracts from patients with dementia with Lewy bodies. <i>Brain</i> , <b>2009</b> , 132, 1093-101	11.2	168

9	Direct quantification of CSF alpha-synuclein by ELISA and first cross-sectional study in patients with neurodegeneration. <i>Experimental Neurology</i> , <b>2008</b> , 213, 315-25	5.7	282
8	Protein aggregation in the brain: the molecular basis for Alzheimer's and Parkinson's diseases. <i>Molecular Medicine</i> , <b>2008</b> , 14, 451-64	6.2	362
7	Inhibitors of alpha-synuclein oligomerization and toxicity: a future therapeutic strategy for Parkinson's disease and related disorders. <i>Experimental Brain Research</i> , <b>2006</b> , 173, 223-33	2.3	57
6	Detection of oligomeric forms of alpha-synuclein protein in human plasma as a potential biomarker for Parkinson's disease. <i>FASEB Journal</i> , <b>2006</b> , 20, 419-25	0.9	541
5	Decreased alpha-synuclein in cerebrospinal fluid of aged individuals and subjects with Parkinson's disease. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 349, 162-6	3.4	335
4	Alpha-synuclein aggregation in neurodegenerative diseases and its inhibition as a potential therapeutic strategy. <i>Biochemical Society Transactions</i> , <b>2005</b> , 33, 1106-10	5.1	38
3	A strategy for designing inhibitors of alpha-synuclein aggregation and toxicity as a novel treatment for Parkinson's disease and related disorders. <i>FASEB Journal</i> , <b>2004</b> , 18, 1315-7	0.9	146
2	Soluble oligomers for the diagnosis of neurodegenerative diseases. <i>Lancet Neurology, The</i> , <b>2003</b> , 2, 461-24.1	4.1	40
1	Alpha-synuclein implicated in Parkinson's disease is present in extracellular biological fluids, including human plasma. <i>FASEB Journal</i> , <b>2003</b> , 17, 1945-7	0.9	436