

# Senthilkumar S Karuppagounder

## 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.

52 papers	3,680 citations	29 h-index	56 g-index
56 ext. papers	4,681 ext. citations	10.9 avg, IF	4.82 L-index

#	Paper	IF	Citations
52	Transneuronal Propagation of Pathologic $\beta$ synuclein from the Gut to the Brain Models Parkinson's Disease. <i>Neuron</i> , <b>2019</b> , 103, 627-641.e7	13.9	453
51	Block of A1 astrocyte conversion by microglia is neuroprotective in models of Parkinson's disease. <i>Nature Medicine</i> , <b>2018</b> , 24, 931-938	50.5	413
50	Pathological $\beta$ synuclein transmission initiated by binding lymphocyte-activation gene 3. <i>Science</i> , <b>2016</b> , 353,	33.3	364
49	Poly(ADP-ribose) polymerase-dependent energy depletion occurs through inhibition of glycolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 10209-14	11.5	203
48	Sulphydration mediates neuroprotective actions of parkin. <i>Nature Communications</i> , <b>2013</b> , 4, 1626	17.4	201
47	Phosphorylation by the c-Abl protein tyrosine kinase inhibits parkin's ubiquitination and protective function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 16691-5	11.5	199
46	Poly(ADP-ribose) drives pathologic $\beta$ synuclein neurodegeneration in Parkinson's disease. <i>Science</i> , <b>2018</b> , 362,	33.3	196
45	The c-Abl inhibitor, nilotinib, protects dopaminergic neurons in a preclinical animal model of Parkinson's disease. <i>Scientific Reports</i> , <b>2014</b> , 4, 4874	4.9	145
44	Parthanatos mediates AIMP2-activated age-dependent dopaminergic neuronal loss. <i>Nature Neuroscience</i> , <b>2013</b> , 16, 1392-400	25.5	142
43	GBA1 deficiency negatively affects physiological $\beta$ synuclein tetramers and related multimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 798-803	11.5	106
42	Activation of tyrosine kinase c-Abl contributes to $\beta$ synuclein-induced neurodegeneration. <i>Journal of Clinical Investigation</i> , <b>2016</b> , 126, 2970-88	15.9	88
41	Genetic deficiency of the mitochondrial protein PGAM5 causes a Parkinson's-like movement disorder. <i>Nature Communications</i> , <b>2014</b> , 5, 4930	17.4	87
40	MicroRNA-132 dysregulation in <i>Toxoplasma gondii</i> infection has implications for dopamine signaling pathway. <i>Neuroscience</i> , <b>2014</b> , 268, 128-38	3.9	77
39	L-deprenyl protects against rotenone-induced, oxidative stress-mediated dopaminergic neurodegeneration in rats. <i>Neurochemistry International</i> , <b>2006</b> , 49, 28-40	4.4	66
38	$\beta$ synuclein accumulation and GBA deficiency due to L444P GBA mutation contributes to MPTP-induced parkinsonism. <i>Molecular Neurodegeneration</i> , <b>2018</b> , 13, 1	19	63
37	Adult Conditional Knockout of PGC-1 $\alpha$ Leads to Loss of Dopamine Neurons. <i>ENeuro</i> , <b>2016</b> , 3,	3.9	61
36	Central insulin resistance and synaptic dysfunction in intracerebroventricular-streptozotocin injected rodents. <i>Neurobiology of Aging</i> , <b>2012</b> , 33, 430.e5-18	5.6	58

35	Versatile effects of sildenafil: recent pharmacological applications. <i>Pharmacological Reports</i> , <b>2007</b> , 59, 150-63	3.9	55
34	Developmental nicotine exposure induced alterations in behavior and glutamate receptor function in hippocampus. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 829-41	10.3	49
33	Rats with unilateral median forebrain bundle, but not striatal or nigral, lesions by the neurotoxins MPP+ or rotenone display differential sensitivity to amphetamine and apomorphine. <i>Pharmacology Biochemistry and Behavior</i> , <b>2006</b> , 84, 321-9	3.9	46
32	Robust kinase- and age-dependent dopaminergic and norepinephrine neurodegeneration in LRRK2 G2019S transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1635-1640	11.5	45
31	Neurotoxic effects of methamphetamine. <i>Neurochemical Research</i> , <b>2010</b> , 35, 171-9	4.6	45
30	c-Abl and Parkinson's Disease: Mechanisms and Therapeutic Potential. <i>Journal of Parkinson's Disease</i> , <b>2017</b> , 7, 589-601	5.3	41
29	Unilateral implantation of dopamine-loaded biodegradable hydrogel in the striatum attenuates motor abnormalities in the 6-hydroxydopamine model of hemi-parkinsonism. <i>Behavioural Brain Research</i> , <b>2007</b> , 184, 11-8	3.4	34
28	Synaptic Plasticity onto Dopamine Neurons Shapes Fear Learning. <i>Neuron</i> , <b>2017</b> , 93, 425-440	13.9	31
27	PARIS induced defects in mitochondrial biogenesis drive dopamine neuron loss under conditions of parkin or PINK1 deficiency. <i>Molecular Neurodegeneration</i> , <b>2020</b> , 15, 17	19	31
26	Proneural transcription factor Atoh1 drives highly efficient differentiation of human pluripotent stem cells into dopaminergic neurons. <i>Stem Cells Translational Medicine</i> , <b>2014</b> , 3, 888-98	6.9	30
25	Evaluation of neuroprotective and anti-fatigue effects of sildenafil. <i>Life Sciences</i> , <b>2007</b> , 81, 988-92	6.8	30
24	LRRK2 G2019S transgenic mice display increased susceptibility to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-mediated neurotoxicity. <i>Journal of Chemical Neuroanatomy</i> , <b>2016</b> , 76, 90-97	3.2	29
23	Synthetic mRNAs Drive Highly Efficient iPS Cell Differentiation to Dopaminergic Neurons. <i>Stem Cells Translational Medicine</i> , <b>2019</b> , 8, 112-123	6.9	28
22	Methamphetamine-induced dopaminergic toxicity prevented owing to the neuroprotective effects of salicylic acid. <i>Life Sciences</i> , <b>2016</b> , 154, 24-9	6.8	26
21	Parkin interacting substrate zinc finger protein 746 is a pathological mediator in Parkinson's disease. <i>Brain</i> , <b>2019</b> , 142, 2380-2401	11.2	21
20	Defects in Mitochondrial Biogenesis Drive Mitochondrial Alterations in PARKIN-Deficient Human Dopamine Neurons. <i>Stem Cell Reports</i> , <b>2020</b> , 15, 629-645	8	21
19	Acute intranigral homocysteine administration produces stereotypic behavioral changes and striatal dopamine depletion in Sprague-Dawley rats. <i>Brain Research</i> , <b>2006</b> , 1075, 81-92	3.7	20
18	Paraquat and maneb induced neurotoxicity. <i>Proceedings of the Western Pharmacology Society</i> , <b>2007</b> , 50, 31-42		20

17	Overexpression of Parkinson's Disease-Associated Mutation LRRK2 G2019S in Mouse Forebrain Induces Behavioral Deficits and $\beta$ -Synuclein Pathology. <i>ENeuro</i> , <b>2017</b> , 4,	3.9	19
16	Elucidating the neurotoxic effects of MDMA and its analogs. <i>Life Sciences</i> , <b>2014</b> , 101, 37-42	6.8	18
15	Investigate the chronic neurotoxic effects of diquat. <i>Neurochemical Research</i> , <b>2012</b> , 37, 1102-11	4.6	17
14	Ebselen effects on MPTP-induced neurotoxicity. <i>Brain Research</i> , <b>2006</b> , 1118, 251-4	3.7	17
13	Assessment of therapeutic potential of amantadine in methamphetamine induced neurotoxicity. <i>Neurochemical Research</i> , <b>2013</b> , 38, 2084-94	4.6	13
12	Role of lipoamide dehydrogenase and metallothionein on 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced neurotoxicity. <i>Neurochemical Research</i> , <b>2008</b> , 33, 980-4	4.6	13
11	FAM19A1, a brain-enriched and metabolically responsive neurokinin, regulates food intake patterns and mouse behaviors. <i>FASEB Journal</i> , <b>2019</b> , 33, 14734-14747	0.9	10
10	Selective inhibition of phosphodiesterase 5 enhances glutamatergic synaptic plasticity and memory in mice. <i>Synapse</i> , <b>2013</b> , 67, 741-7	2.4	9
9	PAR1 farnesylation prevents neurodegeneration in models of Parkinson's disease. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	6
8	STING mediates neurodegeneration and neuroinflammation in nigrostriatal $\beta$ -synucleinopathy.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2118819119 <sup>11.5</sup>	11.5	5
7	Effect of dopaminergic neurotoxin MPTP/MPP+ on coenzyme Q content. <i>Life Sciences</i> , <b>2008</b> , 83, 92-5	6.8	4
6	NLRP3 inflammasome activation in dopamine neurons contributes to neurodegeneration in Parkinson's Disease. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	4
5	Aplp1 and the Aplp1-Lag3 Complex facilitates transmission of pathologic $\beta$ -synuclein		3
4	Caffeine, a natural methylxanthine nutraceutical, exerts dopaminergic neuroprotection. <i>Neurochemistry International</i> , <b>2021</b> , 148, 105066	4.4	2
3	The Stroke Preclinical Assessment Network: Rationale, Design, Feasibility, and Stage 1 Results.. <i>Stroke</i> , <b>2022</b> , 101161STROKEAHA121038047	6.7	2
2	TRIP12 ubiquitination of glucocerebrosidase contributes to neurodegeneration in Parkinson's disease. <i>Neuron</i> , <b>2021</b> , 109, 3758-3774.e11	13.9	1
1	A high-affinity cocaine binding site associated with the brain acid soluble protein 1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2200545119	11.5	0