Anurag Tandon

List of Publications by Year in descending order

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44 papers	5,369 citations	159585 30 h-index	243625 44 g-index
45 all docs	45 docs citations	45 times ranked	8247 citing authors

#	Article	IF	Citations
1	Nicastrin modulates presenilin-mediated notch/glp-1 signal transduction and Î²APP processing. Nature, 2000, 407, 48-54.	27.8	895
2	Loss of PINK1 Function Promotes Mitophagy through Effects on Oxidative Stress and Mitochondrial Fission. Journal of Biological Chemistry, 2009, 284, 13843-13855.	3.4	845
3	Mutations in GDI1 are responsible for X-linked non-specific mental retardation. Nature Genetics, 1998, 19, 134-139.	21.4	304
4	TMP21 is a presenilin complex component that modulates Î³-secretase but not É›-secretase activity. Nature, 2006, 440, 1208-1212.	27.8	286
5	Wild-type PINK1 Prevents Basal and Induced Neuronal Apoptosis, a Protective Effect Abrogated by Parkinson Disease-related Mutations. Journal of Biological Chemistry, 2005, 280, 34025-34032.	3.4	284
6	Cytoplasmic Pink1 activity protects neurons from dopaminergic neurotoxin MPTP. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1716-1721.	7.1	228
7	Î±-Synuclein strains target distinct brain regions and cell types. Nature Neuroscience, 2020, 23, 21-31.	14.8	195
8	Structure and mutational analysis of Rab GDP-dissociation inhibitor. Nature, 1996, 381, 42-48.	27.8	169
9	Analysis of the PINK1 Gene in a Large Cohort of Cases With Parkinson Disease. Archives of Neurology, 2004, 61, 1898-904.	4.5	162
10	Characterization of Semisynthetic and Naturally NÎ±-Acetylated Î±-Synuclein in Vitro and in Intact Cells. Journal of Biological Chemistry, 2012, 287, 28243-28262.	3.4	148
11	Mature Glycosylation and Trafficking of Nicastrin Modulate Its Binding to Presenilins. Journal of Biological Chemistry, 2002, 277, 28135-28142.	3.4	142
12	APH-1 Interacts with Mature and Immature Forms of Presenilins and Nicastrin and May Play a Role in Maturation of PresenilinÂ·Nicastrin Complexes. Journal of Biological Chemistry, 2003, 278, 7374-7380.	3.4	140
13	Effects of Serine 129 Phosphorylation on Î±-Synuclein Aggregation, Membrane Association, and Internalization. Journal of Biological Chemistry, 2016, 291, 4374-4385.	3.4	136
14	Nicastrin binds to membrane-tethered Notch. Nature Cell Biology, 2001, 3, 751-754.	10.3	124
15	Differential Regulation of Exocytosis by Calcium and CAPS in Semi-Intact Synaptosomes. Neuron, 1998, 21, 147-154.	8.1	120
16	Î±-Synuclein-Based Animal Models of Parkinson's Disease: Challenges and Opportunities in a New Era. Trends in Neurosciences, 2016, 39, 750-762.	8.6	120
17	Î±-Synuclein Membrane Association Is Regulated by the Rab3a Recycling Machinery and Presynaptic Activity*. Journal of Biological Chemistry, 2013, 288, 7438-7449.	3.4	96
18	Import and Export of Misfolded Î±-Synuclein. Frontiers in Neuroscience, 2018, 12, 344.	2.8	86

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19	Brain levels of CDK5 activator p25 are not increased in Alzheimer's or other neurodegenerative diseases with neurofibrillary tangles. Journal of Neurochemistry, 2003, 86, 572-581.	3.9	81
20	Î±-Synuclein-synaptosomal membrane interactions. FEBS Journal, 2004, 271, 3180-3189.	0.2	78
21	Molecular genetics of AlzheimerÊ¼s disease: the role of Î²-amyloid and the presenilins. Current Opinion in Neurology, 2000, 13, 377-384.	3.6	75
22	Carboxyl-terminal Fragments of Alzheimer Î²-Amyloid Precursor Protein Accumulate in Restricted and Unpredicted Intracellular Compartments in Presenilin 1-deficient Cells. Journal of Biological Chemistry, 2000, 275, 36794-36802.	3.4	71
23	The presenilins. Genome Biology, 2002, 3, reviews3014.1.	9.6	61
24	Mutation of Conserved Aspartates Affects Maturation of Both Aspartate Mutant and Endogenous Presenilin 1 and Presenilin 2 Complexes. Journal of Biological Chemistry, 2000, 275, 27348-27353.	3.4	53
25	Cytosolic Proteins Regulate Î±-Synuclein Dissociation from Presynaptic Membranes. Journal of Biological Chemistry, 2006, 281, 32148-32155.	3.4	49
26	Effect of Ser-129 Phosphorylation on Interaction of Î±-Synuclein with Synaptic and Cellular Membranes. Journal of Biological Chemistry, 2011, 286, 35863-35873.	3.4	49
27	Noninvasive delivery of an Î±â€synuclein gene silencing vector with magnetic resonanceâ€“guided focused ultrasound. Movement Disorders, 2018, 33, 1567-1579.	3.9	49
28	The levels of mature glycosylated nicastrin are regulated and correlate with Î³-secretase processing of amyloid Î²-precursor protein. Journal of Neurochemistry, 2002, 83, 1065-1071.	3.9	38
29	Presenilin 1 and Presenilin 2 Have Differential Effects on the Stability and Maturation of Nicastrin in Mammalian Brain. Journal of Biological Chemistry, 2003, 278, 19974-19979.	3.4	34
30	Mutation of the conserved N-terminal cysteine (Cys92) of human presenilin 1 causes increased Aî²42 secretion in mammalian cells but impaired Notch/lin-I2 signalling in C. elegans. NeuroReport, 2000, 11, 3227-3230.	1.2	32
31	Quantitative assessment on the cloning efficiencies of lentiviral transfer vectors with a unique clone site. Scientific Reports, 2012, 2, 1-8.	3.3	31
32	Studying Parkinsonâ€™s disease using Caenorhabditis elegans models in microfluidic devices. Integrative Biology (United Kingdom), 2019, 11, 186-207.	1.3	31
33	Systemic administration of a proteasome inhibitor does not cause nigrostriatal dopamine degeneration. Brain Research, 2007, 1168, 83-89.	2.2	26
34	Reciprocal Effects of Î±-Synuclein Overexpression and Proteasome Inhibition in Neuronal Cells and Tissue. Neurotoxicity Research, 2010, 17, 215-227.	2.7	19
35	PINK1 deficiency enhances autophagy and mitophagy induction. Molecular and Cellular Oncology, 2016, 3, e1046579.	0.7	18
36	Alpha-Synuclein Targeting Therapeutics for Parkinson's Disease and Related Synucleinopathies. Frontiers in Neurology, 2022, 13, .	2.4	16

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37	Î±-Synuclein Regulates Peripheral Insulin Secretion and Glucose Transport. Frontiers in Aging Neuroscience, 2021, 13, 665348.	3.4	12
38	Microfluidic electric parallel egg-laying assay and application to in-vivo toxicity screening of microplastics using C. elegans. Science of the Total Environment, 2021, 783, 147055.	8.0	10
39	Genetic markers in the diagnosis of Alzheimer's disease. Journal of Alzheimer's Disease, 2001, 3, 293-304.	2.6	9
40	Parallel-Channel Electrotaxis and Neuron Screening of Caenorhabditis elegans. Micromachines, 2020, 11, 756.	2.9	8
41	Semi-mobile C. elegans electrotaxis assay for movement screening and neural monitoring of Parkinsonâ€™s disease models. Sensors and Actuators B: Chemical, 2020, 316, 128064.	7.8	6
42	Electric egg-laying: a new approach for regulating C. elegans egg-laying behaviour in a microchannel using electric field. Lab on A Chip, 2021, 21, 821-834.	6.0	5
43	Viral alpha-synuclein knockdown prevents spreading synucleinopathy. Brain Communications, 2021, 3, fcab247.	3.3	5
44	The Biology and Pathobiology of Î±-Synuclein. , 2017, , 109-130.		1