

# Satyabrata Kar

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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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

3,585  
citations

32  
h-index

59  
g-index

81  
ext. papers

3,811  
ext. citations

5.2  
avg. IF

5.06  
L-index

#	Paper	IF	Citations
80	Unconjugated PLGA nanoparticles attenuate temperature-dependent $\beta$ amyloid aggregation and protect neurons against toxicity: implications for Alzheimer's disease pathology.. <i>Journal of Nanobiotechnology</i> , <b>2022</b> , 20, 67	9.4	4
79	Overview of the Neuroprotective Effects of the MAO-Inhibiting Antidepressant Phenelzine. <i>Cellular and Molecular Neurobiology</i> , <b>2021</b> , 1	4.6	4
78	Implications of exosomes derived from cholesterol-accumulated astrocytes in Alzheimer's disease pathology. <i>DMM Disease Models and Mechanisms</i> , <b>2021</b> , 14,	4.1	2
77	Mimosine functionalized gold nanoparticles (Mimo-AuNPs) suppress $\beta$ amyloid aggregation and neuronal toxicity. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4491-4505	16.7	6
76	Effects of Specific Inhibitors for CaMK1D on a Primary Neuron Model for Alzheimer's Disease.. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
75	Significance of cytosolic cathepsin D in Alzheimer's disease pathology: Protective cellular effects of PLGA nanoparticles against $\beta$ amyloid-toxicity. <i>Neuropathology and Applied Neurobiology</i> , <b>2020</b> , 46, 686-706	5.2	5
74	Attenuation of the effects of oxidative stress by the MAO-inhibiting antidepressant and carbonyl scavenger phenelzine. <i>Chemico-Biological Interactions</i> , <b>2019</b> , 304, 139-147	5	15
73	Kainate Receptor Activation Enhances Amyloidogenic Processing of APP in Astrocytes. <i>Molecular Neurobiology</i> , <b>2019</b> , 56, 5095-5110	6.2	5
72	A role for astrocyte-derived amyloid $\beta$ peptides in the degeneration of neurons in an animal model of temporal lobe epilepsy. <i>Brain Pathology</i> , <b>2019</b> , 29, 28-44	6	16
71	The Effects of N-terminal Mutations on $\beta$ amyloid Peptide Aggregation and Toxicity. <i>Neuroscience</i> , <b>2018</b> , 379, 177-188	3.9	16
70	Endosomal-Lysosomal Cholesterol Sequestration by U18666A Differentially Regulates Amyloid Precursor Protein (APP) Metabolism in Normal and APP-Overexpressing Cells. <i>Molecular and Cellular Biology</i> , <b>2018</b> , 38,	4.8	4
69	The Effects of Extracellular Serum Concentration on APP Processing in Npc1-Deficient APP-Overexpressing N2a Cells. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 5757-5766	6.2	2
68	Insulin-Like Growth Factor-II/Cation-Independent Mannose 6-Phosphate Receptor in Neurodegenerative Diseases. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 2636-2658	6.2	26
67	Effects of cholesterol transport inhibitor U18666A on APP metabolism in rat primary astrocytes. <i>Glia</i> , <b>2017</b> , 65, 1728-1743	9	10
66	Overexpression of the Insulin-Like Growth Factor II Receptor Increases $\beta$ Amyloid Production and Affects Cell Viability. <i>Molecular and Cellular Biology</i> , <b>2015</b> , 35, 2368-84	4.8	15
65	APP overexpression in the absence of NPC1 exacerbates metabolism of amyloidogenic proteins of Alzheimer's disease. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 7132-50	5.6	20
64	Increased levels and activity of cathepsins B and D in kainate-induced toxicity. <i>Neuroscience</i> , <b>2015</b> , 284, 360-373	3.9	11

63	The Effect of A $\beta$ Oligomers on APP Processing and A $\beta$ Generation in Cultured U-373 Astrocytes. <i>Neurodegenerative Diseases</i> , <b>2015</b> , 15, 361-8	2.3	13
62	Overexpression of the IGF-II/M6P receptor in mouse fibroblast cell lines differentially alters expression profiles of genes involved in Alzheimer's disease-related pathology. <i>PLoS ONE</i> , <b>2014</b> , 9, e98037	3.7	3
61	A function for EHD family proteins in unidirectional retrograde dendritic transport of BACE1 and Alzheimer's disease A $\beta$ production. <i>Cell Reports</i> , <b>2013</b> , 5, 1552-63	10.6	53
60	Role of cholesterol in APP metabolism and its significance in Alzheimer's disease pathogenesis. <i>Molecular Neurobiology</i> , <b>2013</b> , 47, 37-63	6.2	92
59	Glutamate system, amyloid $\beta$ peptides and tau protein: functional interrelationships and relevance to Alzheimer disease pathology. <i>Journal of Psychiatry and Neuroscience</i> , <b>2013</b> , 38, 6-23	4.5	190
58	Role of cathepsin D in U18666A-induced neuronal cell death: potential implication in Niemann-Pick type C disease pathogenesis. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 3136-52	5.4	45
57	Alterations in gene expression in mutant amyloid precursor protein transgenic mice lacking Niemann-Pick type C1 protein. <i>PLoS ONE</i> , <b>2013</b> , 8, e54605	3.7	5
56	Single-transmembrane domain IGF-II/M6P receptor: potential interaction with G protein and its association with cholesterol-rich membrane domains. <i>Endocrinology</i> , <b>2012</b> , 153, 4784-98	4.8	5
55	Mutant human APP exacerbates pathology in a mouse model of NPC and its reversal by a $\beta$ -cyclodextrin. <i>Human Molecular Genetics</i> , <b>2012</b> , 21, 4857-75	5.6	31
54	Inhibition of $\beta$ -amyloid <sub>1-42</sub> internalization attenuates neuronal death by stabilizing the endosomal-lysosomal system in rat cortical cultured neurons. <i>Neuroscience</i> , <b>2011</b> , 178, 181-8	3.9	24
53	$\beta$ -Amyloid-related peptides potentiate K <sup>+</sup> -evoked glutamate release from adult rat hippocampal slices. <i>Neurobiology of Aging</i> , <b>2010</b> , 31, 1164-72	5.6	42
52	Leu27 insulin-like growth factor-II, an insulin-like growth factor-II analog, attenuates depolarization-evoked GABA release from adult rat hippocampal and cortical slices. <i>Neuroscience</i> , <b>2010</b> , 170, 722-30	3.9	12
51	Altered levels and distribution of amyloid precursor protein and its processing enzymes in Niemann-Pick type C1-deficient mouse brains. <i>Glia</i> , <b>2010</b> , 58, 1267-81	9	38
50	Altered levels and distribution of IGF-II/M6P receptor and lysosomal enzymes in mutant APP and APP + PS1 transgenic mouse brains. <i>Neurobiology of Aging</i> , <b>2009</b> , 30, 54-70	5.6	20
49	Increased activity and altered subcellular distribution of lysosomal enzymes determine neuronal vulnerability in Niemann-Pick type C1-deficient mice. <i>American Journal of Pathology</i> , <b>2009</b> , 175, 2540-56	5.8	68
48	Memantine protects rat cortical cultured neurons against beta-amyloid-induced toxicity by attenuating tau phosphorylation. <i>European Journal of Neuroscience</i> , <b>2008</b> , 28, 1989-2002	3.5	113
47	Localization and regional distribution of p23/TMP21 in the brain. <i>Neurobiology of Disease</i> , <b>2008</b> , 32, 37-49	5.5	24
46	Cellular distribution of gamma-secretase subunit nicastrin in the developing and adult rat brains. <i>Neurobiology of Aging</i> , <b>2008</b> , 29, 724-38	5.6	13

45	Role of calpain and caspase in beta-amyloid-induced cell death in rat primary septal cultured neurons. <i>Neuropharmacology</i> , <b>2008</b> , 54, 721-33	5.5	37
44	Effect of kainic acid treatment on insulin-like growth factor-2 receptors in the IGF2-deficient adult mouse brain. <i>Brain Research</i> , <b>2007</b> , 1131, 77-87	3.7	13
43	Heterotrimeric G proteins and the single-transmembrane domain IGF-II/M6P receptor: functional interaction and relevance to cell signaling. <i>Molecular Neurobiology</i> , <b>2007</b> , 35, 329-45	6.2	18
42	Internalization of beta-amyloid peptide by primary neurons in the absence of apolipoprotein E. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 35722-32	5.4	102
41	Analysis of Receptor Localization in the Central Nervous System Using In Vitro and In Vivo Receptor Autoradiography <b>2007</b> , 275-292		
40	Single transmembrane domain insulin-like growth factor-II/mannose-6-phosphate receptor regulates central cholinergic function by activating a G-protein-sensitive, protein kinase C-dependent pathway. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 585-96	6.6	69
39	Up-regulation of cation-independent mannose 6-phosphate receptor and endosomal-lysosomal markers in surviving neurons after 192-IgG-saporin administrations into the adult rat brain. <i>American Journal of Pathology</i> , <b>2006</b> , 169, 1140-54	5.8	17
38	Cellular distribution of insulin-like growth factor-II/mannose-6-phosphate receptor in normal human brain and its alteration in Alzheimer's disease pathology. <i>Neurobiology of Aging</i> , <b>2006</b> , 27, 199-210 <sup>5,6</sup>	5.6	29
37	Birth insults involving hypoxia produce long-term increases in hippocampal [125I]insulin-like growth factor-I and -II receptor binding in the rat. <i>Neuroscience</i> , <b>2006</b> , 139, 451-62	3.9	6
36	Selective loss of basal forebrain cholinergic neurons by 192 IgG-saporin is associated with decreased phosphorylation of Ser glycogen synthase kinase-3beta. <i>Journal of Neurochemistry</i> , <b>2005</b> , 95, 263-72	6	20
35	Fucoidan inhibits cellular and neurotoxic effects of beta-amyloid (A beta) in rat cholinergic basal forebrain neurons. <i>European Journal of Neuroscience</i> , <b>2005</b> , 21, 2649-59	3.5	79
34	Amyloid beta peptides and central cholinergic neurons: functional interrelationship and relevance to Alzheimer's disease pathology. <i>Progress in Brain Research</i> , <b>2004</b> , 145, 261-74	2.9	27
33	The insulin-like growth factor-II/mannose-6-phosphate receptor: structure, distribution and function in the central nervous system. <i>Brain Research Reviews</i> , <b>2004</b> , 44, 117-40		119
32	Interactions between beta-amyloid and central cholinergic neurons: implications for Alzheimer's disease. <i>Journal of Psychiatry and Neuroscience</i> , <b>2004</b> , 29, 427-41	4.5	224
31	Insulin-like growth factor-II/mannose-6-phosphate receptor: widespread distribution in neurons of the central nervous system including those expressing cholinergic phenotype. <i>Journal of Comparative Neurology</i> , <b>2003</b> , 458, 113-27	3.4	55
30	Role of amyloid $\beta$ peptides in the regulation of central cholinergic function and its relevance to Alzheimer's disease pathology. <i>Drug Development Research</i> , <b>2002</b> , 56, 248-263	5.1	8
29	Insulin-like growth factor-II/Mannose-6-phosphate receptor in the spinal cord and dorsal root ganglia of the adult rat. <i>European Journal of Neuroscience</i> , <b>2002</b> , 15, 33-9	3.5	11
28	Insulin-like growth factor-1-induced phosphorylation of transcription factor FKHRL1 is mediated by phosphatidylinositol 3-kinase/Akt kinase and role of this pathway in insulin-like growth factor-1-induced survival of cultured hippocampal neurons. <i>Molecular Pharmacology</i> , <b>2002</b> , 62, 225-33	4.3	145

27	Object recognition memory and cholinergic parameters in mice expressing human presenilin 1 transgenes. <i>Experimental Neurology</i> , <b>2002</b> , 175, 398-406	5.7	26
26	Amyloid beta peptide induces tau phosphorylation and loss of cholinergic neurons in rat primary septal cultures. <i>Neuroscience</i> , <b>2002</b> , 115, 201-11	3.9	247
25	Insulin-like growth factor-I inhibits endogenous acetylcholine release from the rat hippocampal formation: possible involvement of GABA in mediating the effects. <i>Neuroscience</i> , <b>2002</b> , 115, 603-12	3.9	34
24	Effects of amyloid peptides on cell viability and expression of neuropeptides in cultured rat dorsal root ganglion neurons: a role for free radicals and protein kinase C. <i>European Journal of Neuroscience</i> , <b>2001</b> , 13, 1125-35	3.5	15
23	Amyloid beta peptide levels and its effects on hippocampal acetylcholine release in aged, cognitively-impaired and -unimpaired rats. <i>Journal of Chemical Neuroanatomy</i> , <b>2001</b> , 21, 323-9	3.2	45
22	Insulin-like growth factor-I and its receptor in the frontal cortex, hippocampus, and cerebellum of normal human and alzheimer disease brains. <i>Synapse</i> , <b>2000</b> , 38, 450-9	2.4	51
21	Effects of voluntary ethanol drinking on [125I]insulin-like growth factor-I, [125I]insulin-like growth factor-II and [125I]insulin receptor binding in the mouse hippocampus and cerebellum. <i>Neuroscience</i> , <b>2000</b> , 98, 687-95	3.9	6
20	Protective and rescuing abilities of IGF-I and some putative free radical scavengers against beta-amyloid-inducing toxicity in neurons. <i>Annals of the New York Academy of Sciences</i> , <b>1999</b> , 890, 356-64	6.5	42
19	Impact of neonatal kainate treatment on hippocampal insulin-like growth factor receptors. <i>Neuroscience</i> , <b>1999</b> , 91, 1035-43	3.9	9
18	Amyloid beta-peptide inhibits high-affinity choline uptake and acetylcholine release in rat hippocampal slices. <i>Journal of Neurochemistry</i> , <b>1998</b> , 70, 2179-87	6	130
17	Autoradiographic Localization of Growth Factor Receptors in Neuronal Tissues. <i>Current Protocols in Pharmacology</i> , <b>1998</b> , 3, 8.2.1	4.1	
16	Rediscovering an old friend, IGF-I: potential use in the treatment of neurodegenerative diseases. <i>Trends in Neurosciences</i> , <b>1997</b> , 20, 326-31	13.3	171
15	Systemic administration of kainic acid induces selective time dependent decrease in [125I]insulin-like growth factor I, [125I]insulin-like growth factor II and [125I]insulin receptor binding sites in adult rat hippocampal formation. <i>Neuroscience</i> , <b>1997</b> , 80, 1041-55	3.9	41
14	Insulin-like growth factors-I and -II differentially regulate endogenous acetylcholine release from the rat hippocampal formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 14054-9	11.5	83
13	Evidence for direct and indirect mechanisms in the potent modulatory action of interleukin-2 on the release of acetylcholine in rat hippocampal slices. <i>British Journal of Pharmacology</i> , <b>1997</b> , 120, 1151-7	8.6	32
12	Distribution and levels of insulin-like growth factor (IGF-I and IGF-II) and insulin receptor binding sites in the spinal cords of amyotrophic lateral sclerosis (ALS) patients. <i>Molecular Brain Research</i> , <b>1996</b> , 41, 128-33		57
11	Beta-amyloid-related peptides inhibit potassium-evoked acetylcholine release from rat hippocampal slices. <i>Journal of Neuroscience</i> , <b>1996</b> , 16, 1034-40	6.6	128
10	Autoradiographical and immunohistochemical analysis of receptor localization in the central nervous system. <i>The Histochemical Journal</i> , <b>1996</b> , 28, 729-45		7

9	Neuropeptide receptors in developing and adult rat spinal cord: an in vitro quantitative autoradiography study of calcitonin gene-related peptide, neurokinins, mu-opioid, galanin, somatostatin, neurotensin and vasoactive intestinal polypeptide receptors. <i>Journal of Comparative Neurology</i> , <b>1995</b> , 354, 253-81	3.4	80
8	Altered calcitonin gene-related peptide, substance P and enkephalin immunoreactivities and receptor binding sites in the dorsal spinal cord of the polyarthritic rat. <i>European Journal of Neuroscience</i> , <b>1994</b> , 6, 345-54	3.5	49
7	Galanin receptor binding sites in adult rat spinal cord respond differentially to neonatal capsaicin, dorsal rhizotomy and peripheral axotomy. <i>European Journal of Neuroscience</i> , <b>1994</b> , 6, 1917-21	3.5	29
6	An interaction between inositol hexakisphosphate (IP6) and insulin-like growth factor II receptor binding sites in the rat brain. <i>NeuroReport</i> , <b>1994</b> , 5, 625-8	1.7	17
5	Entorhinal cortex lesion induces differential responses in [125I]insulin-like growth factor I, [125I]insulin-like growth factor II and [125I]insulin receptor binding sites in the rat hippocampal formation. <i>Neuroscience</i> , <b>1993</b> , 55, 69-80	3.9	58
4	Quantitative autoradiographic localization of [125I]insulin-like growth factor I, [125I]insulin-like growth factor II, and [125I]insulin receptor binding sites in developing and adult rat brain. <i>Journal of Comparative Neurology</i> , <b>1993</b> , 333, 375-97	3.4	188
3	Autoradiographic localization of [125I-Tyr8]-bradykinin receptor binding sites in the guinea pig spinal cord. <i>Synapse</i> , <b>1993</b> , 15, 48-57	2.4	26
2	Quantitative autoradiographic localization of [125I]neuropeptide Y receptor binding sites in rat spinal cord and the effects of neonatal capsaicin, dorsal rhizotomy and peripheral axotomy. <i>Brain Research</i> , <b>1992</b> , 574, 333-7	3.7	53
1	Quantitative autoradiographic localisation of [125I]endothelin-1 binding sites in spinal cord and dorsal root ganglia of the rat. <i>Neuroscience Letters</i> , <b>1991</b> , 133, 117-20	3.3	28