Satyabrata Kar

List of Publications by Citations

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	Amyloid beta peptide induces tau phosphorylation and loss of cholinergic neurons in rat primary septal cultures. *Neuroscience*, **2002**, 115, 201-11	3.9	247
79	Interactions between beta-amyloid and central cholinergic neurons: implications for Alzheimer's disease. *Journal of Psychiatry and Neuroscience*, **2004**, 29, 427-41	4.5	224
78	Glutamate system, amyloid beta peptides and tau protein: functional interrelationships and relevance to Alzheimer disease pathology. *Journal of Psychiatry and Neuroscience*, **2013**, 38, 6-23	4.5	190
77	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. *Journal of Comparative Neurology*, **1993**, 333, 375-97	3.4	188
76	Rediscovering an old friend, IGF-I: potential use in the treatment of neurodegenerative diseases. *Trends in Neurosciences*, **1997**, 20, 326-31	13.3	171
75	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. *Molecular Pharmacology*, **2002**, 62, 225-33	4.3	145
74	Amyloid beta-peptide inhibits high-affinity choline uptake and acetylcholine release in rat hippocampal slices. *Journal of Neurochemistry*, **1998**, 70, 2179-87	6	130
73	Beta-amyloid-related peptides inhibit potassium-evoked acetylcholine release from rat hippocampal slices. *Journal of Neuroscience*, **1996**, 16, 1034-40	6.6	128
72	The insulin-like growth factor-II/mannose-6-phosphate receptor: structure, distribution and function in the central nervous system. *Brain Research Reviews*, **2004**, 44, 117-40		119
71	Memantine protects rat cortical cultured neurons against beta-amyloid-induced toxicity by attenuating tau phosphorylation. *European Journal of Neuroscience*, **2008**, 28, 1989-2002	3.5	113
70	Internalization of beta-amyloid peptide by primary neurons in the absence of apolipoprotein E. *Journal of Biological Chemistry*, **2007**, 282, 35722-32	5.4	102
69	Role of cholesterol in APP metabolism and its significance in Alzheimer's disease pathogenesis. *Molecular Neurobiology*, **2013**, 47, 37-63	6.2	92
68	Insulin-like growth factors-I and -II differentially regulate endogenous acetylcholine release from the rat hippocampal formation. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 14054-9	11.5	83
67	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. *Journal of Comparative Neurology*, **1995**, 354, 253-81	3.4	80
66	Fucoidan inhibits cellular and neurotoxic effects of beta-amyloid (A beta) in rat cholinergic basal forebrain neurons. *European Journal of Neuroscience*, **2005**, 21, 2649-59	3.5	79
65	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. *Journal of Neuroscience*, **2006**, 26, 585-96	6.6	69
64	Increased activity and altered subcellular distribution of lysosomal enzymes determine neuronal vulnerability in Niemann-Pick type C1-deficient mice. *American Journal of Pathology*, **2009**, 175, 2540-56	5.8	68

63	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. *Neuroscience*, **1993**, 55, 69-80	3.9	58
62	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. *Molecular Brain Research*, **1996**, 41, 128-33		57
61	Insulin-like growth factor-II/mannose-6-phosphate receptor: widespread distribution in neurons of the central nervous system including those expressing cholinergic phenotype. *Journal of Comparative Neurology*, **2003**, 458, 113-27	3.4	55
60	A function for EHD family proteins in unidirectional retrograde dendritic transport of BACE1 and Alzheimer's disease A production. *Cell Reports*, **2013**, 5, 1552-63	10.6	53
59	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. *Brain Research*, **1992**, 574, 333-7	3.7	53
58	Insulin-like growth factor-I and its receptor in the frontal cortex, hippocampus, and cerebellum of normal human and alzheimer disease brains. *Synapse*, **2000**, 38, 450-9	2.4	51
57	Altered calcitonin gene-related peptide, substance P and enkephalin immunoreactivities and receptor binding sites in the dorsal spinal cord of the polyarthritic rat. *European Journal of Neuroscience*, **1994**, 6, 345-54	3.5	49
56	Role of cathepsin D in U18666A-induced neuronal cell death: potential implication in Niemann-Pick type C disease pathogenesis. *Journal of Biological Chemistry*, **2013**, 288, 3136-52	5.4	45
55	Amyloid beta peptide levels and its effects on hippocampal acetylcholine release in aged, cognitively-impaired and -unimpaired rats. *Journal of Chemical Neuroanatomy*, **2001**, 21, 323-9	3.2	45
54	amyloid-related peptides potentiate K+-evoked glutamate release from adult rat hippocampal slices. *Neurobiology of Aging*, **2010**, 31, 1164-72	5.6	42
53	Protective and rescuing abilities of IGF-I and some putative free radical scavengers against beta-amyloid-inducing toxicity in neurons. *Annals of the New York Academy of Sciences*, **1999**, 890, 356-64	6.5	42
52	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. *Neuroscience*, **1997**, 80, 1041-55	3.9	41
51	Altered levels and distribution of amyloid precursor protein and its processing enzymes in Niemann-Pick type C1-deficient mouse brains. *Glia*, **2010**, 58, 1267-81	9	38
50	Role of calpain and caspase in beta-amyloid-induced cell death in rat primary septal cultured neurons. *Neuropharmacology*, **2008**, 54, 721-33	5.5	37
49	Insulin-like growth factor-I inhibits endogenous acetylcholine release from the rat hippocampal formation: possible involvement of GABA in mediating the effects. *Neuroscience*, **2002**, 115, 603-12	3.9	34
48	Evidence for direct and indirect mechanisms in the potent modulatory action of interleukin-2 on the release of acetylcholine in rat hippocampal slices. *British Journal of Pharmacology*, **1997**, 120, 1151-7	8.6	32
47	Mutant human APP exacerbates pathology in a mouse model of NPC and its reversal by a cyclodextrin. *Human Molecular Genetics*, **2012**, 21, 4857-75	5.6	31
46	Cellular distribution of insulin-like growth factor-II/mannose-6-phosphate receptor in normal human brain and its alteration in Alzheimer's disease pathology. *Neurobiology of Aging*, **2006**, 27, 199-210	5.6	29

45	Galanin receptor binding sites in adult rat spinal cord respond differentially to neonatal capsaicin, dorsal rhizotomy and peripheral axotomy. *European Journal of Neuroscience*, **1994**, 6, 1917-21	3.5	29
44	Quantitative autoradiographic localisation of [125I]endothelin-1 binding sites in spinal cord and dorsal root ganglia of the rat. *Neuroscience Letters*, **1991**, 133, 117-20	3.3	28
43	Amyloid beta peptides and central cholinergic neurons: functional interrelationship and relevance to Alzheimer's disease pathology. *Progress in Brain Research*, **2004**, 145, 261-74	2.9	27
42	Insulin-Like Growth Factor-II/Cation-Independent Mannose 6-Phosphate Receptor in Neurodegenerative Diseases. *Molecular Neurobiology*, **2017**, 54, 2636-2658	6.2	26
41	Object recognition memory and cholinergic parameters in mice expressing human presenilin 1 transgenes. *Experimental Neurology*, **2002**, 175, 398-406	5.7	26
40	Autoradiographic localization of [125I-Tyr8]-bradykinin receptor binding sites in the guinea pig spinal cord. *Synapse*, **1993**, 15, 48-57	2.4	26
39	Inhibition of β-amyloid1-42 internalization attenuates neuronal death by stabilizing the endosomal-lysosomal system in rat cortical cultured neurons. *Neuroscience*, **2011**, 178, 181-8	3.9	24
38	Localization and regional distribution of p23/TMP21 in the brain. *Neurobiology of Disease*, **2008**, 32, 37-49	5.5	24
37	APP overexpression in the absence of NPC1 exacerbates metabolism of amyloidogenic proteins of Alzheimer's disease. *Human Molecular Genetics*, **2015**, 24, 7132-50	5.6	20
36	Altered levels and distribution of IGF-II/M6P receptor and lysosomal enzymes in mutant APP and APP + PS1 transgenic mouse brains. *Neurobiology of Aging*, **2009**, 30, 54-70	5.6	20
35	Selective loss of basal forebrain cholinergic neurons by 192 IgG-saporin is associated with decreased phosphorylation of Ser glycogen synthase kinase-3beta. *Journal of Neurochemistry*, **2005**, 95, 263-72	6	20
34	Heterotrimeric G proteins and the single-transmembrane domain IGF-II/M6P receptor: functional interaction and relevance to cell signaling. *Molecular Neurobiology*, **2007**, 35, 329-45	6.2	18
33	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. *American Journal of Pathology*, **2006**, 169, 1140-54	5.8	17
32	An interaction between inositol hexakisphosphate (IP6) and insulin-like growth factor II receptor binding sites in the rat brain. *NeuroReport*, **1994**, 5, 625-8	1.7	17
31	The Effects of N-terminal Mutations on β-amyloid Peptide Aggregation and Toxicity. *Neuroscience*, **2018**, 379, 177-188	3.9	16
30	A role for astrocyte-derived amyloid β-peptides in the degeneration of neurons in an animal model of temporal lobe epilepsy. *Brain Pathology*, **2019**, 29, 28-44	6	16
29	Attenuation of the effects of oxidative stress by the MAO-inhibiting antidepressant and carbonyl scavenger phenelzine. *Chemico-Biological Interactions*, **2019**, 304, 139-147	5	15
28	Overexpression of the Insulin-Like Growth Factor II Receptor Increases β-Amyloid Production and Affects Cell Viability. *Molecular and Cellular Biology*, **2015**, 35, 2368-84	4.8	15

27	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. *European Journal of Neuroscience*, **2001**, 13, 1125-35	3.5	15
26	The Effect of A□□Oligomers on APP Processing and A□□Generation in Cultured U-373 Astrocytes. *Neurodegenerative Diseases*, **2015**, 15, 361-8	2.3	13
25	Cellular distribution of gamma-secretase subunit nicastrin in the developing and adult rat brains. *Neurobiology of Aging*, **2008**, 29, 724-38	5.6	13
24	Effect of kainic acid treatment on insulin-like growth factor-2 receptors in the IGF2-deficient adult mouse brain. *Brain Research*, **2007**, 1131, 77-87	3.7	13
23	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. *Neuroscience*, **2010**, 170, 722-30	3.9	12
22	Increased levels and activity of cathepsins B and D in kainate-induced toxicity. *Neuroscience*, **2015**, 284, 360-373	3.9	11
21	Insulin-like growth factor-II/Mannose-6-phosphate receptor in the spinal cord and dorsal root ganglia of the adult rat. *European Journal of Neuroscience*, **2002**, 15, 33-9	3.5	11
20	Effects of cholesterol transport inhibitor U18666A on APP metabolism in rat primary astrocytes. *Glia*, **2017**, 65, 1728-1743	9	10
19	Impact of neonatal kainate treatment on hippocampal insulin-like growth factor receptors. *Neuroscience*, **1999**, 91, 1035-43	3.9	9
18	Role of amyloid □peptides in the regulation of central cholinergic function and its relevance to Alzheimer□s disease pathology. *Drug Development Research*, **2002**, 56, 248-263	5.1	8
17	Autoradiographical and immunohistochemical analysis of receptor localization in the central nervous system. *The Histochemical Journal*, **1996**, 28, 729-45		7
16	Birth insults involving hypoxia produce long-term increases in hippocampal [125I]insulin-like growth factor-I and -II receptor binding in the rat. *Neuroscience*, **2006**, 139, 451-62	3.9	6
15	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. *Neuroscience*, **2000**, 98, 687-95	3.9	6
14	Mimosine functionalized gold nanoparticles (Mimo-AuNPs) suppress □amyloid aggregation and neuronal toxicity. *Bioactive Materials*, **2021**, 6, 4491-4505	16.7	6
13	Alterations in gene expression in mutant amyloid precursor protein transgenic mice lacking Niemann-Pick type C1 protein. *PLoS ONE*, **2013**, 8, e54605	3.7	5
12	Single-transmembrane domain IGF-II/M6P receptor: potential interaction with G protein and its association with cholesterol-rich membrane domains. *Endocrinology*, **2012**, 153, 4784-98	4.8	5
11	Significance of cytosolic cathepsin D in Alzheimer□s disease pathology: Protective cellular effects of PLGA nanoparticles against □amyloid-toxicity. *Neuropathology and Applied Neurobiology*, **2020**, 46, 686-706	5.2	5
10	Kainate Receptor Activation Enhances Amyloidogenic Processing of APP in Astrocytes. *Molecular Neurobiology*, **2019**, 56, 5095-5110	6.2	5

9	Endosomal-Lysosomal Cholesterol Sequestration by U18666A Differentially Regulates Amyloid Precursor Protein (APP) Metabolism in Normal and APP-Overexpressing Cells. *Molecular and Cellular Biology*, **2018**, 38,	4.8	4
8	Unconjugated PLGA nanoparticles attenuate temperature-dependent amyloid aggregation and protect neurons against toxicity: implications for Alzheimer's disease pathology.. *Journal of Nanobiotechnology*, **2022**, 20, 67	9.4	4
7	Overview of the Neuroprotective Effects of the MAO-Inhibiting Antidepressant Phenelzine. *Cellular and Molecular Neurobiology*, **2021**, 1	4.6	4
6	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. *PLoS ONE*, **2014**, 9, e98037	3.7	3
5	The Effects of Extracellular Serum Concentration on APP Processing in Npc1-Deficient APP-Overexpressing N2a Cells. *Molecular Neurobiology*, **2018**, 55, 5757-5766	6.2	2
4	Implications of exosomes derived from cholesterol-accumulated astrocytes in Alzheimer's disease pathology. *DMM Disease Models and Mechanisms*, **2021**, 14,	4.1	2
3	Effects of Specific Inhibitors for CaMK1D on a Primary Neuron Model for Alzheimer's Disease.. *Molecules*, **2021**, 26,	4.8	1
2	Analysis of Receptor Localization in the Central Nervous System Using In Vitro and In Vivo Receptor Autoradiography **2007**, 275-292		
1	Autoradiographic Localization of Growth Factor Receptors in Neuronal Tissues. *Current Protocols in Pharmacology*, **1998**, 3, 8.2.1	4.1	