Satyabrata Kar

List of Publications by Year
in descending order

81 papers	4,114 citations	109321 35 h-index	114465 63 g-index
81 all docs	81 docs citations	81 times ranked	7035 citing authors

#	Article	IF	Citations
1	Amyloid Î² peptide induces tau phosphorylation and loss of cholinergic neurons in rat primary septal cultures. Neuroscience, 2002, 115, 201-211.	2.3	296
2	Glutamate system, amyloid Î² peptides and tau protein: functional interrelationships and relevance to Alzheimer disease pathology. Journal of Psychiatry and Neuroscience, 2013, 38, 6-23.	2.4	247
3	Interactions between beta-amyloid and central cholinergic neurons: implications for Alzheimer's disease. Journal of Psychiatry and Neuroscience, 2004, 29, 427-41.	2.4	242
4	Quantitative autoradiographic localization of [¹²⁵I]insulinâ€like growth factor I, [¹²⁵I]insulinâ€like growth factor II, and [¹²⁵I]insulin receptor binding sites in developing and adult rat brain. Journal of Comparative Neurology, 1993, 333, 375-397.	1.6	203
5	Discussion. Trends in Neurosciences, 1997, 20, 326-331.	8.6	185
6	Insulin-Like Growth Factor-1â€“Induced Phosphorylation of Transcription Factor FKHRL1 Is Mediated by Phosphatidylinositol 3-Kinase/Akt Kinase and Role of This Pathway in Insulin-Like Growth Factor-1â€“Induced Survival of Cultured Hippocampal Neurons. Molecular Pharmacology, 2002, 62, 225-233.	2.3	155
7	Amyloid Î²â€Peptide Inhibits Highâ€Affinity Choline Uptake and Acetylcholine Release in Rat Hippocampal Slices. Journal of Neurochemistry, 1998, 70, 2179-2187.	3.9	151
8	The insulin-like growth factor-II/mannose-6-phosphate receptor: structure, distribution and function in the central nervous system. Brain Research Reviews, 2004, 44, 117-140.	9.0	133
9	Beta-amyloid-related peptides inhibit potassium-evoked acetylcholine release from rat hippocampal slices. Journal of Neuroscience, 1996, 16, 1034-1040.	3.6	130
10	Memantine protects rat cortical cultured neurons against Î²â€amyloidâ€induced toxicity by attenuating tau phosphorylation. European Journal of Neuroscience, 2008, 28, 1989-2002.	2.6	125
11	Internalization of Î²-Amyloid Peptide by Primary Neurons in the Absence of Apolipoprotein E. Journal of Biological Chemistry, 2007, 282, 35722-35732.	3.4	112
12	Role of Cholesterol in APP Metabolism and Its Significance in Alzheimerâ€™s Disease Pathogenesis. Molecular Neurobiology, 2013, 47, 37-63.	4.0	102
13	Insulin-like growth factors-I and -II differentially regulate endogenous acetylcholine release from the rat hippocampalâ€‰formation. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14054-14059.	7.1	92
14	Fucoidan inhibits cellular and neurotoxic effects of Î²-amyloid (AÎ²) in rat cholinergic basal forebrain neurons. European Journal of Neuroscience, 2005, 21, 2649-2659.	2.6	88
15	Neuropeptide receptors in developing and adult rat spinal cord: An in vitro quantitative autoradiography study of calcitonin gene-related peptide, neurokinins, ?-opioid, galanin, somatostatin, neurotensin and vasoactive intestinal polypeptide receptors. Journal of Comparative Neurology, 1995, 354, 253-281.	1.6	87
16	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, 585-596.	3.6	79
17	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, 2540-2556.	3.8	74
18	A Function for EHD Family Proteins in Unidirectional Retrograde Dendritic Transport of BACE1 and Alzheimerâ€™s Disease AÎ² Production. Cell Reports, 2013, 5, 1552-1563.	6.4	65

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19	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.	2.3	60
20	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, 113-127.	1.6	60
21	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, 128-133.	2.3	59
22	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, 333-337.	2.2	57
23	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, 345-354.	2.6	57
24	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, 450-459.	1.2	55
25	Role of Cathepsin D in U18666A-induced Neuronal Cell Death. Journal of Biological Chemistry, 2013, 288, 3136-3152.	3.4	54
26	Î²-Amyloid-related peptides potentiate K+-evoked glutamate release from adult rat hippocampal slices. Neurobiology of Aging, 2010, 31, 1164-1172.	3.1	50
27	Amyloid Î² peptide levels and its effects on hippocampal acetylcholine release in aged, cognitively-impaired and -unimpaired rats. Journal of Chemical Neuroanatomy, 2001, 21, 323-329.	2.1	47
28	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, 356-364.	3.8	45
29	Altered levels and distribution of amyloid precursor protein and its processing enzymes in Niemannâ€Pick type C1â€deficient mouse brains. Glia, 2010, 58, 1267-1281.	4.9	43
30	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, 1041-1055.	2.3	42
31	Insulin-Like Growth Factor-II/Cation-Independent Mannose 6-Phosphate Receptor in Neurodegenerative Diseases. Molecular Neurobiology, 2017, 54, 2636-2658.	4.0	41
32	Evidence for direct and indirect mechanisms in the potent modulatory action of interleukinâ€2 on the release of acetylcholine in rat hippocampal slices. British Journal of Pharmacology, 1997, 120, 1151-1157.	5.4	40
33	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, 603-612.	2.3	39
34	Role of calpain and caspase in Î²-amyloid-induced cell death in rat primary septal cultured neurons. Neuropharmacology, 2008, 54, 721-733.	4.1	38
35	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.	3.1	37
36	Mutant human APP exacerbates pathology in a mouse model of NPC and its reversal by a Î²-cyclodextrin. Human Molecular Genetics, 2012, 21, 4857-4875.	2.9	35

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37	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, 1917-1921.	2.6	33
38	Quantitative autoradiographic localisation of [125I]endothelin-1 binding sites in spinal cord and dorsal root ganglia of the rat. Neuroscience Letters, 1991, 133, 117-120.	2.1	32
39	Amyloid Î² peptides and central cholinergic neurons: functional interrelationship and relevance to Alzheimer's disease pathology. Progress in Brain Research, 2004, 145, 261-274.	1.4	31
40	Object Recognition Memory and Cholinergic Parameters in Mice Expressing Human Presenilin 1 Transgenes. Experimental Neurology, 2002, 175, 398-406.	4.1	28
41	Inhibition of Î²-amyloid1-42 internalization attenuates neuronal death by stabilizing the endosomal-lysosomal system in rat cortical cultured neurons. Neuroscience, 2011, 178, 181-188.	2.3	28
42	Autoradiographic localization of [125I-TYR8]-bradykinin receptor binding sites in the guinea pig spinal cord. Synapse, 1993, 15, 48-57.	1.2	27
43	Localization and regional distribution of p23/TMP21 in the brain. Neurobiology of Disease, 2008, 32, 37-49.	4.4	27
44	Selective loss of basal forebrain cholinergic neurons by 192 IgG-saporin is associated with decreased phosphorylation of Ser9 glycogen synthase kinase-3Î². Journal of Neurochemistry, 2005, 95, 263-272.	3.9	25
45	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.	3.1	22
46	APP overexpression in the absence of NPC1 exacerbates metabolism of amyloidogenic proteins of Alzheimer's disease. Human Molecular Genetics, 2015, 24, ddv413.	2.9	22
47	Attenuation of the effects of oxidative stress by the MAO-inhibiting antidepressant and carbonyl scavenger phenelzine. Chemico-Biological Interactions, 2019, 304, 139-147.	4.0	22
48	The Effects of N-terminal Mutations on Î²-amyloid Peptide Aggregation and Toxicity. Neuroscience, 2018, 379, 177-188.	2.3	20
49	A role for astrocyteâ€derived amyloid Î² peptides in the degeneration of neurons in an animal model of temporal lobe epilepsy. Brain Pathology, 2019, 29, 28-44.	4.1	20
50	An interaction between inositol hexakisphosphate (IP6) and insulin-like growth factor II receptor binding sites in the rat brain. NeuroReport, 1994, 5, 625-628.	1.2	19
51	Mimosine functionalized gold nanoparticles (Mimo-AuNPs) suppress Î²-amyloid aggregation and neuronal toxicity. Bioactive Materials, 2021, 6, 4491-4505.	15.6	19
52	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, 1140-1154.	3.8	18
53	Heterotrimeric G Proteins and the Single-Transmembrane Domain IGF-II/M6P Receptor: Functional Interaction and Relevance to Cell Signaling. Molecular Neurobiology, 2007, 35, 329-345.	4.0	18
54	Overexpression of the Insulin-Like Growth Factor II Receptor Increases Î²-Amyloid Production and Affects Cell Viability. Molecular and Cellular Biology, 2015, 35, 2368-2384.	2.3	17

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55	Unconjugated PLGA nanoparticles attenuate temperature-dependent Î²-amyloid aggregation and protect neurons against toxicity: implications for Alzheimerâ€™s disease pathology. Journal of Nanobiotechnology, 2022, 20, 67.	9.1	17
56	The Effect of AÎ²₁₋₄₂ Oligomers on APP Processing and AÎ²₁₋₄₀ Generation in Cultured U-373 Astrocytes. Neurodegenerative Diseases, 2015, 15, 361-368.	1.4	16
57	Increased levels and activity of cathepsins B and D in kainate-induced toxicity. Neuroscience, 2015, 284, 360-373.	2.3	16
58	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, 1125-1135.	2.6	15
59	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.	2.2	15
60	Overview of the Neuroprotective Effects of the MAO-Inhibiting Antidepressant Phenelzine. Cellular and Molecular Neurobiology, 2022, 42, 225-242.	3.3	15
61	Effects of cholesterol transport inhibitor U18666A on APP metabolism in rat primary astrocytes. Glia, 2017, 65, 1728-1743.	4.9	14
62	Significance of cytosolic cathepsin D in Alzheimer's disease pathology: Protective cellular effects of PLGA nanoparticles against Î²â€amyloidâ€toxicity. Neuropathology and Applied Neurobiology, 2020, 46, 686-706.	3.2	14
63	Cellular distribution of Î³-secretase subunit nicastrin in the developing and adult rat brains. Neurobiology of Aging, 2008, 29, 724-738.	3.1	13
64	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, 722-730.	2.3	12
65	Significance of native PLGA nanoparticles in the treatment of Alzheimer's disease pathology. Bioactive Materials, 2022, 17, 506-525.	15.6	12
66	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.	2.9	11
67	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, 33-39.	2.6	11
68	Impact of neonatal kainate treatment on hippocampal insulin-like growth factor receptors. Neuroscience, 1999, 91, 1035-1043.	2.3	10
69	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, .	2.3	10
70	Implications of exosomes derived from cholesterol-accumulated astrocytes in Alzheimer's disease pathology. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	10
71	Kainate Receptor Activation Enhances Amyloidogenic Processing of APP in Astrocytes. Molecular Neurobiology, 2019, 56, 5095-5110.	4.0	8
72	Autoradiographical and immunohistochemical analysis of receptor localization in the central nervous system. The Histochemical Journal, 1996, 28, 729-745.	0.6	7

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73	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, 687-695.	2.3	6
74	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, 451-462.	2.3	6
75	Single-Transmembrane Domain IGF-II/M6P Receptor: Potential Interaction with G Protein and Its Association with Cholesterol-Rich Membrane Domains. Endocrinology, 2012, 153, 4784-4798.	2.8	6
76	Alterations in Gene Expression in Mutant Amyloid Precursor Protein Transgenic Mice Lacking Niemann-Pick Type C1 Protein. PLoS ONE, 2013, 8, e54605.	2.5	6
77	Overexpression of the IGF-II/M6P Receptor in Mouse Fibroblast Cell Lines Differentially Alters Expression Profiles of Genes Involved in Alzheimerâ€™s Disease-Related Pathology. PLoS ONE, 2014, 9, e98057.	2.5	5
78	Effects of Specific Inhibitors for CaMK1D on a Primary Neuron Model for Alzheimerâ€™s Disease. Molecules, 2021, 26, 7669.	3.8	4
79	The Effects of Extracellular Serum Concentration on APP Processing in Npc1-Deficient APP-Overexpressing N2a Cells. Molecular Neurobiology, 2018, 55, 5757-5766.	4.0	2
80	Autoradiographic Localization of Growth Factor Receptors in Neuronal Tissues. Current Protocols in Pharmacology, 1998, 3, 8.2.1.	4.0	0
81	Analysis of Receptor Localization in the Central Nervous System Using In Vitro and In Vivo Receptor Autoradiography. , 2007, , 275-292.		0