Santosh R D'mello

List of Publications by Year
in descending order

88 papers	5,036 citations	94433 37 h-index	91884 69 g-index
88 all docs	88 docs citations	88 times ranked	5520 citing authors

#	Article	IF	Citations
1	Induction of apoptosis in cerebellar granule neurons by low potassium: inhibition of death by insulin-like growth factor I and cAMP. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10989-10993.	7.1	862
2	Insulin-Like Growth Factor and Potassium Depolarization Maintain Neuronal Survival by Distinct Pathways: Possible Involvement of PI 3-Kinase in IGF-1 Signaling. Journal of Neuroscience, 1997, 17, 1548-1560.	3.6	283
3	Chemotherapy for the Brain: The Antitumor Antibiotic Mithramycin Prolongs Survival in a Mouse Model of Huntington's Disease. Journal of Neuroscience, 2004, 24, 10335-10342.	3.6	181
4	Akt Is a Downstream Target of NF-ÎºB. Journal of Biological Chemistry, 2002, 277, 29674-29680.	3.4	173
5	Opposing Effects of Sirtuins on Neuronal Survival: SIRT1-Mediated Neuroprotection Is Independent of Its Deacetylase Activity. PLoS ONE, 2008, 3, e4090.	2.5	161
6	Selective Toxicity by HDAC3 in Neurons: Regulation by Akt and GSK3Î². Journal of Neuroscience, 2011, 31, 1746-1751.	3.6	146
7	HDAC4 inhibits cellâ€cycle progression and protects neurons from cell death. Developmental Neurobiology, 2008, 68, 1076-1092.	3.0	136
8	Inhibition of GSK3Î² is a common event in neuroprotection by different survival factors. Molecular Brain Research, 2005, 137, 193-201.	2.3	127
9	Lithium Induces Apoptosis in Immature Cerebellar Granule Cells but Promotes Survival of Mature Neurons. Experimental Cell Research, 1994, 211, 332-338.	2.6	119
10	Histone Deacetylase-1 (HDAC1) Is a Molecular Switch between Neuronal Survival and Death. Journal of Biological Chemistry, 2012, 287, 35444-35453.	3.4	115
11	Neuroprotection by Histone Deacetylase-Related Protein. Molecular and Cellular Biology, 2006, 26, 3550-3564.	2.3	100
12	Epigenetics, Autism Spectrum, and Neurodevelopmental Disorders. Neurotherapeutics, 2013, 10, 742-756.	4.4	100
13	The câ€Raf inhibitor GW5074 provides neuroprotection <i>inâ€ƒvitro</i> and in an animal model of neurodegeneration through a MEKâ€ERK and Aktâ€independent mechanism. Journal of Neurochemistry, 2004, 90, 595-608.	3.9	94
14	NF-ÎºB is involved in the survival of cerebellar granule neurons: association of IÎºÎ² phosphorylation with cell survival. Journal of Neurochemistry, 2001, 76, 1188-1198.	3.9	93
15	Caspase-3 is required for apoptosis-associated DNA fragmentation but not for cell death in neurons deprived of potassium. , 2000, 59, 24-31.		88
16	Histone deacetylases: Focus on the nervous system. Cellular and Molecular Life Sciences, 2007, 64, 2258-2269.	5.4	83
17	FoxG1 Promotes the Survival of Postmitotic Neurons. Journal of Neuroscience, 2011, 31, 402-413.	3.6	77
18	The Stress-Induced Cytokine Interleukin-6 Decreases the Inhibition/Excitation Ratio in the Rat Temporal Cortex via Trans-Signaling. Biological Psychiatry, 2012, 71, 574-582.	1.3	73

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19	A DEVDâ€Inhibited Caspase Other than CPP32 Is Involved in the Commitment of Cerebellar Granule Neurons to Apoptosis Induced by K⁺ Deprivation. Journal of Neurochemistry, 1998, 70, 1809-1818.	3.9	71
20	Isoform-Specific Toxicity of Mecp2 in Postmitotic Neurons: Suppression of Neurotoxicity by FoxG1. Journal of Neuroscience, 2012, 32, 2846-2855.	3.6	71
21	Neuroprotection by Histone Deacetylase-7 (HDAC7) Occurs by Inhibition of c-jun Expression through a Deacetylase-independent Mechanism. Journal of Biological Chemistry, 2011, 286, 4819-4828.	3.4	69
22	Structural and functional identification of regulatory regions and cis elements surrounding the nerve growth factor gene promoter. Molecular Brain Research, 1991, 11, 255-264.	2.3	68
23	Citron-Kinase, A Protein Essential to Cytokinesis in Neuronal Progenitors, Is Deleted in the <i>Flathead</i>Mutant Rat. Journal of Neuroscience, 2002, 22, RC217-RC217.	3.6	60
24	Histone Deacetylase 3 Is Necessary for Proper Brain Development. Journal of Biological Chemistry, 2014, 289, 34569-34582.	3.4	57
25	6 Molecular Regulation of Neuronal Apoptosis. Current Topics in Developmental Biology, 1998, 39, 187-213.	2.2	56
26	Complex neuroprotective and neurotoxic effects of histone deacetylases. Journal of Neurochemistry, 2018, 145, 96-110.	3.9	55
27	Disassociation of Histone Deacetylase-3 from Normal Huntingtin Underlies Mutant Huntingtin Neurotoxicity. Journal of Neuroscience, 2013, 33, 11833-11838.	3.6	54
28	Isolation and nucleotide sequence of a cDNA clone encoding bovine adrenal tyrosine hydroxylase: Comparative analysis of tyrosine hydroxylase gene products. Journal of Neuroscience Research, 1988, 19, 440-449.	2.9	53
29	HSF1 Protects Neurons through a Novel Trimerization- and HSP-Independent Mechanism. Journal of Neuroscience, 2014, 34, 1599-1612.	3.6	53
30	Inhibition of neuronal apoptosis by the cyclinâ€dependent kinase inhibitor GW8510: Identification of 3â€² substituted indolones as a scaffold for the development of neuroprotective drugs. Journal of Neurochemistry, 2005, 93, 538-548.	3.9	49
31	Insights into the regulation of neuronal viability by nucleophosmin/B23. Experimental Biology and Medicine, 2015, 240, 774-786.	2.4	48
32	Decreased expression of the metabotropic glutamate receptor-4 gene is associated with neuronal apoptosis. Journal of Neuroscience Research, 1998, 53, 531-541.	2.9	45
33	Histone deacetylaseâ€related protein inhibits AESâ€mediated neuronal cell death by direct interaction. Journal of Neuroscience Research, 2008, 86, 2423-2431.	2.9	42
34	The complete nuleotide sequence and structure of the gene encoding bovine phenylethanolamine N-methyltransferase. Journal of Neuroscience Research, 1988, 19, 367-376.	2.9	40
35	Isolation and structural characterization of the bovine tyrosine hydroxylase gene. Journal of Neuroscience Research, 1989, 23, 31-40.	2.9	40
36	Induction of Nerve Growth Factor Gene Expression by 12-O-Tetradecanoyl Phorbol 13-Acetate. Journal of Neurochemistry, 1990, 55, 718-721.	3.9	40

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37	Opposing effects of thapsigargin on the survival of developing cerebellar granule neurons in culture. Brain Research, 1995, 676, 325-335.	2.2	40
38	Class IIA HDACs in the regulation of neurodegeneration. Frontiers in Bioscience - Landmark, 2008, 13, 1072.	3.0	38
39	Distinct phosphorylation patterns underlie Akt activation by different survival factors in neurons. Molecular Brain Research, 2001, 96, 157-162.	2.3	37
40	Apoptosis in cerebellar granule neurons is associated with reduced interaction between CREB-binding protein and NF-Î°B. Journal of Neurochemistry, 2003, 84, 397-408.	3.9	37
41	A chemical compound commonly used to inhibit PKR, {8â€(imidazolâ€4â€ylmethylene)â€6Hâ€azolidino[5,4â€g] benzothiazolâ€7â€one}, protects neurons by inhibiting cyclinâ€dependent kinase. European Journal of Neuroscience, 2008, 28, 2003-2016.	2.6	37
42	TheFlatheadMutation Causes CNS-Specific Developmental Abnormalities and Apoptosis. Journal of Neuroscience, 2000, 20, 2295-2306.	3.6	36
43	When Good Kinases Go Rogue: GSK3, p38 MAPK and CDKs as Therapeutic Targets for Alzheimerâ€™s and Huntingtonâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 5911.	4.1	36
44	Vagal nerve stimulation blocks interleukin 6-dependent synaptic hyperexcitability induced by lipopolysaccharide-induced acute stress in the rodent prefrontal cortex. Brain, Behavior, and Immunity, 2015, 43, 149-158.	4.1	34
45	Multiple Signalling Pathways Interact in the Regulation of Nerve Growth Factor Production in L929 Fibroblasts. Journal of Neurochemistry, 1991, 57, 1570-1576.	3.9	33
46	The human nerve growth factor gene: structure of the promoter region and expression in L929 fibroblasts. Molecular Brain Research, 1992, 15, 67-75.	2.3	33
47	Identification of novel 1,4â€benzoxazine compounds that are protective in tissue culture and in vivo models of neurodegeneration. Journal of Neuroscience Research, 2010, 88, 1970-1984.	2.9	32
48	SGP2, ubiquitin, 14K lectin and RP8 mRNAs are not induced in neuronal apoptosis. NeuroReport, 1993, 4, 355-358.	1.2	30
49	Characterization of Seizures in the Flathead Rat: A New Genetic Model of Epilepsy in Early Postnatal Development. Epilepsia, 1999, 40, 394-400.	5.1	30
50	Induction of neuronal cell death by paraneoplastic Ma1 antigen. Journal of Neuroscience Research, 2010, 88, 3508-3519.	2.9	29
51	NF-Î°B stimulates Akt phosphorylation and gene expression by distinct signaling mechanisms. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2003, 1630, 35-40.	2.4	28
52	Caspase-3 is required for apoptosis-associated DNA fragmentation but not for cell death in neurons deprived of potassium. Journal of Neuroscience Research, 2000, 59, 24-31.	2.9	28
53	Neuronâ€selective toxicity of tau peptide in a cell culture model of neurodegenerative tauopathy: Essential role for aggregation in neurotoxicity. Journal of Neuroscience Research, 2010, 88, 3399-3413.	2.9	27
54	Conditional deletion of histone deacetylaseâ€4 in the central nervous system has no major effect on brain architecture or neuronal viability. Journal of Neuroscience Research, 2013, 91, 407-415.	2.9	27

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55	Overdosing on iron: Elevated iron and degenerative brain disorders. Experimental Biology and Medicine, 2020, 245, 1444-1473.	2.4	26
56	Histone deacetylases as targets for the treatment of human neurodegenerative diseases. Drug News and Perspectives, 2009, 22, 513-24.	1.5	26
57	Polydactyly in Mice Lacking HDAC9/HDRP. Experimental Biology and Medicine, 2008, 233, 980-988.	2.4	24
58	Transducin-like Enhancer of Split-1 (TLE1) Combines with Forkhead Box Protein G1 (FoxG1) to Promote Neuronal Survival. Journal of Biological Chemistry, 2012, 287, 14749-14759.	3.4	23
59	P21-activated kinase-1 is necessary for depolarization-mediated neuronal survival. Journal of Neuroscience Research, 2005, 79, 809-815.	2.9	22
60	Treating Neurodegenerative Conditions Through the Understanding of Neuronal Apoptosis. CNS and Neurological Disorders, 2005, 4, 3-23.	4.3	22
61	Synthesis and Structure-Activity Relationship Studies of 3-Substituted Indolin-2-ones as Effective Neuroprotective Agents. Experimental Biology and Medicine, 2008, 233, 1395-1402.	2.4	22
62	Inhibition of ATFâ€3 expression by Bâ€Raf mediates the neuroprotective action of GW5074. Journal of Neurochemistry, 2008, 105, 1300-1312.	3.9	20
63	c-Fos Protects Neurons Through a Noncanonical Mechanism Involving HDAC3 Interaction: Identification of a 21-Amino Acid Fragment with Neuroprotective Activity. Molecular Neurobiology, 2016, 53, 1165-1180.	4.0	20
64	MECP2 and the biology of MECP2 duplication syndrome. Journal of Neurochemistry, 2021, 159, 29-60.	3.9	19
65	Regulation of Neuronal Survival by Nucleophosmin 1 (NPM1) Is Dependent on Its Expression Level, Subcellular Localization, and Oligomerization Status. Journal of Biological Chemistry, 2016, 291, 20787-20797.	3.4	18
66	Reduced Expression of Foxp1 as a Contributing Factor in Huntington's Disease. Journal of Neuroscience, 2017, 37, 6575-6587.	3.6	18
67	Elevated MeCP2 in Mice Causes Neurodegeneration Involving Tau Dysregulation and Excitotoxicity: Implications for the Understanding and Treatment of MeCP2 Triplication Syndrome. Molecular Neurobiology, 2018, 55, 9057-9074.	4.0	17
68	Regulation of Central Nervous System Development by Class I Histone Deacetylases. Developmental Neuroscience, 2019, 41, 149-165.	2.0	17
69	Neuroprotection by Heat Shock Factor-1 (HSF1) and Trimerization-Deficient Mutant Identifies Novel Alterations in Gene Expression. Scientific Reports, 2018, 8, 17255.	3.3	16
70	Histone deacetylases 1, 2 and 3 in nervous system development. Current Opinion in Pharmacology, 2020, 50, 74-81.	3.5	16
71	A gene essential to brain growth and development maps to the distal arm of rat chromosome 12. Neuroscience Letters, 1998, 251, 5-8.	2.1	15
72	JAZ (Znf346), a SIRT1-interacting Protein, Protects Neurons by Stimulating p21 (WAF/CIP1) Protein Expression. Journal of Biological Chemistry, 2014, 289, 35409-35420.	3.4	14

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73	Proteomic analysis identifies NPTX1 and HIP1R as potential targets of histone deacetylase-3-mediated neurodegeneration. Experimental Biology and Medicine, 2018, 243, 627-638.	2.4	14
74	Differential regulation of the nerve growth factor and brain-derived neurotrophic factor genes in L929 mouse fibroblasts. Journal of Neuroscience Research, 1992, 33, 519-526.	2.9	12
75	Survival of cultured cerebellar granule neurons can be maintained by Akt-dependent and Akt-independent signaling pathways. Molecular Brain Research, 2004, 127, 140-145.	2.3	12
76	The Bdnf and Npas4 genes are targets of HDAC3-mediated transcriptional repression. BMC Neuroscience, 2019, 20, 65.	1.9	10
77	Aberrant apoptosis in the neurological mutant Flathead is associated with defective cytokinesis of neural progenitor cells. Developmental Brain Research, 2001, 130, 53-63.	1.7	9
78	Histone deacetylase-3: Friend and foe of the brain. Experimental Biology and Medicine, 2020, 245, 1130-1141.	2.4	8
79	Phosphorylation of IÎºB-Î² Is Necessary for Neuronal Survival. Journal of Biological Chemistry, 2006, 281, 1506-1515.	3.4	7
80	Featured Article: Transcriptome profiling of expression changes during neuronal death by RNA-Seq. Experimental Biology and Medicine, 2015, 240, 242-251.	2.4	7
81	NF-ÎºB is involved in the survival of cerebellar granule neurons: association of IÎºBÎ² phosphorylation with cell survival. Journal of Neurochemistry, 2008, 77, 351-351.	3.9	6
82	Synthesis of 2-Benzylidene and 2-Hetarylmethyl Derivatives of 2<i>H</i>-1,4-Benzoxazin-3-(4<i>H</i>)-ones as Neuroprotecting Agents. Synthetic Communications, 2010, 40, 2364-2376.	2.1	6
83	Cell and Context-Dependent Effects of the Heat Shock Protein DNAJB6 on Neuronal Survival. Molecular Neurobiology, 2016, 53, 5628-5639.	4.0	6
84	Catalytic-independent neuroprotection by SIRT1 is mediated through interaction with HDAC1. PLoS ONE, 2019, 14, e0215208.	2.5	4
85	Brain chemotherapy from the bench to the clinic: targeting neuronal survival with small molecule inhibitors of apoptosis. Frontiers in Bioscience - Landmark, 2005, 10, 552.	3.0	3
86	Decreased expression of the metabotropic glutamate receptorâ€4 gene is associated with neuronal apoptosis. Journal of Neuroscience Research, 1998, 53, 531-541.	2.9	2
87	NF-kappaB is involved in the survival of cerebellar granule neurons: association of IkappaBbeta phosphorylation with cell survival. CORRECTION. Journal of Neurochemistry, 2001, 77, 351-351.	3.9	1
88	Editorial [Hot Topic: Neurodegenerative Diseases (Guest Editor: Santosh R. DMello)]. CNS and Neurological Disorders, 2005, 4, i-i.	4.3	0