Subramaniam Jayanthi

List of Publications by Year
in descending order

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67	3,685	147801	133252
papers	citations	31 h-index	59 g-index

67	67	67	2906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Speed kills: cellular and molecular bases of methamphetamineâ€induced nerve terminal degeneration and neuronal apoptosis. FASEB Journal, 2003, 17, 1775-1788.	0.5	265
2	Methamphetamine induces neuronal apoptosis via crossâ€talks between endoplasmic reticulum and mitochondriaâ€dependent death cascades. FASEB Journal, 2004, 18, 238-251.	0.5	255
3	Neurotoxicity of substituted amphetamines: Molecular and cellular mechanisms. Neurotoxicity Research, 2007, 11, 183-202.	2.7	252
4	Calcineurin/NFAT-induced up-regulation of the Fas ligand/Fas death pathway is involved in methamphetamine-induced neuronal apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 868-873.	7.1	208
5	Methamphetamine causes differential regulation of proâ€death and antiâ€death Bclâ€2 genes in the mouse neocortex. FASEB Journal, 2001, 15, 1745-1752.	0.5	149
6	Methamphetamine-Induced Changes in Antioxidant Enzymes and Lipid Peroxidation in Copper/Zinc-Superoxide Dismutase Transgenic Mice. Annals of the New York Academy of Sciences, 1998, 844, 92-102.	3.8	120
7	Methamphetamine Self-Administration Is Associated with Persistent Biochemical Alterations in Striatal and Cortical Dopaminergic Terminals in the Rat. PLoS ONE, 2010, 5, e8790.	2.5	119
8	CREB phosphorylation regulates striatal transcriptional responses in the self-administration model of methamphetamine addiction in the rat. Neurobiology of Disease, 2013, 58, 132-143.	4.4	115
9	Methamphetamine-induced neuronal apoptosis involves the activation of multiple death pathways. Review. Neurotoxicity Research, 2005, 8, 199-206.	2.7	114
10	Methamphetamine Causes Differential Alterations in Gene Expression and Patterns of Histone Acetylation/Hypoacetylation in the Rat Nucleus Accumbens. PLoS ONE, 2012, 7, e34236.	2.5	111
11	Methamphetamine Downregulates Striatal Glutamate Receptors via Diverse Epigenetic Mechanisms. Biological Psychiatry, 2014, 76, 47-56.	1.3	109
12	Epigenetic landscape of amphetamine and methamphetamine addiction in rodents. Epigenetics, 2015, 10, 574-580.	2.7	101
13	Temporal profiling of methamphetamine-induced changes in gene expression in the mouse brain: Evidence from cDNA array. Synapse, 2001, 41, 40-48.	1.2	99
14	Dopamine D1 Receptors, Regulation of Gene Expression in the Brain, and Neurodegeneration. CNS and Neurological Disorders - Drug Targets, 2010, 9, 526-538.	1.4	90
15	Neurotoxicity of methamphetamine: Main effects and mechanisms. Experimental Neurology, 2021, 344, 113795.	4.1	88
16	Involvement of Dopamine Receptors in Binge Methamphetamine-Induced Activation of Endoplasmic Reticulum and Mitochondrial Stress Pathways. PLoS ONE, 2011, 6, e28946.	2.5	78
17	Methamphetamine Induces Dopamine D1 Receptor-Dependent Endoplasmic Reticulum Stress-Related Molecular Events in the Rat Striatum. PLoS ONE, 2009, 4, e6092.	2.5	76
18	Overexpression of human copper/zinc superoxide dismutase in transgenic mice attenuates oxidative stress caused by methylenedioxymethamphetamine (Ecstasy). Neuroscience, 1999, 91, 1379-1387.	2.3	74

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19	Genome-wide DNA hydroxymethylation identifies potassium channels in the nucleus accumbens as discriminators of methamphetamine addiction and abstinence. Molecular Psychiatry, 2017, 22, 1196-1204.	7.9	65
20	Transcriptional and Epigenetic Substrates of Methamphetamine Addiction and Withdrawal: Evidence from a Long-Access Self-Administration Model in the Rat. Molecular Neurobiology, 2015, 51, 696-717.	4.0	64
21	Methamphetamine Causes Coordinate Regulation of Src, Cas, Crk, and the Jun N-Terminal Kinaseâ€"Jun Pathway. Molecular Pharmacology, 2002, 61, 1124-1131.	2.3	63
22	Methamphetamine Administration Causes Death of Dopaminergic Neurons in the Mouse Olfactory Bulb. Biological Psychiatry, 2007, 61, 1235-1243.	1.3	62
23	High-dose fenfluramine administration decreases serotonin transporter binding, but not serotonin transporter protein levels, in rat forebrain. Synapse, 2003, 50, 233-239.	1.2	56
24	Mice with Partial Deficiency of c-Jun Show Attenuation of Methamphetamine-Induced Neuronal Apoptosis. Molecular Pharmacology, 2002, 62, 993-1000.	2.3	49
25	Chronic methamphetamine exposure suppresses the striatal expression of members of multiple families of immediate early genes (IEGs) in the rat: normalization by an acute methamphetamine injection. Psychopharmacology, 2011, 215, 353-365.	3.1	47
26	Amphetamine-induced toxicity in dopamine terminals in CD-1 and C57BL/6J mice: complex roles for oxygen-based species and temperature regulation. Neuroscience, 2001, 107, 265-274.	2.3	43
27	Genome-wide profiling identifies a subset of methamphetamine (METH)-induced genes associated with METH-induced increased H4K5Ac binding in the rat striatum. BMC Genomics, 2013, 14, 545.	2.8	43
28	Repeated methamphetamine and modafinil induce differential cognitive effects and specific histone acetylation and DNA methylation profiles in the mouse medial prefrontal cortex. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 82, 1-11.	4.8	39
29	Molecular Adaptations in the Rat Dorsal Striatum and Hippocampus Following Abstinence-Induced Incubation of Drug Seeking After Escalated Oxycodone Self-Administration. Molecular Neurobiology, 2019, 56, 3603-3615.	4.0	39
30	Dual mechanism of Fas-induced cell death in neuroglioma cells: a role for reactive oxygen species. Molecular Brain Research, 1999, 72, 158-165.	2.3	38
31	Methamphetamine Induces TET1- and TET3-Dependent DNA Hydroxymethylation of Crh and Avp Genes in the Rat Nucleus Accumbens. Molecular Neurobiology, 2018, 55, 5154-5166.	4.0	38
32	Sex Differences in Escalated Methamphetamine Self-Administration and Altered Gene Expression Associated With Incubation of Methamphetamine Seeking. International Journal of Neuropsychopharmacology, 2019, 22, 710-723.	2.1	38
33	Differential effects of methamphetamine and SCH23390 on the expression of members of IEG families of transcription factors in the rat striatum. Brain Research, 2010, 1318, 1-10.	2.2	36
34	Enhanced Upregulation of CRH mRNA Expression in the Nucleus Accumbens of Male Rats after a Second Injection of Methamphetamine Given Thirty Days Later. PLoS ONE, 2014, 9, e84665.	2.5	35
35	Gene variants and educational attainment in cannabis use: mediating role of DNA methylation. Translational Psychiatry, 2018, 8, 23.	4.8	32
36	Compulsive methamphetamine taking under punishment is associated with greater cue-induced drug seeking in rats. Behavioural Brain Research, 2017, 326, 265-271.	2.2	31

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37	Compulsive methamphetamine taking and abstinence in the presence of adverse consequences: Epigenetic and transcriptional consequences in the rat brain. Pharmacology Biochemistry and Behavior, 2019, 179, 98-108.	2.9	29
38	Epigenetics of Methamphetamine-Induced Changes in Glutamate Function. Neuropsychopharmacology, 2013, 38, 248-249.	5.4	27
39	Differential effects of binge methamphetamine injections on the mRNA expression of histone deacetylases (HDACs) in the rat striatum. NeuroToxicology, 2014, 45, 178-184.	3.0	27
40	Sex differences in methamphetamine use disorder perused from pre-clinical and clinical studies: Potential therapeutic impacts. Neuroscience and Biobehavioral Reviews, 2022, 137, 104674.	6.1	27
41	Compulsive methamphetamine taking in the presence of punishment is associated with increased oxytocin expression in the nucleus accumbens of rats. Scientific Reports, 2017, 7, 8331.	3.3	26
42	The effects of single-dose injections of modafinil and methamphetamine on epigenetic and functional markers in the mouse medial prefrontal cortex: potential role of dopamine receptors. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 88, 222-234.	4.8	26
43	A Single Prior Injection of Methamphetamine Enhances Methamphetamine Self-Administration (SA) and Blocks SA-Induced Changes in DNA Methylation and mRNA Expression of Potassium Channels in the Rat Nucleus Accumbens. Molecular Neurobiology, 2020, 57, 1459-1472.	4.0	24
44	Increased expression of proenkephalin and prodynorphin mRNAs in the nucleus accumbens of compulsive methamphetamine taking rats. Scientific Reports, 2016, 6, 37002.	3.3	22
45	An Acute Methamphetamine Injection Downregulates the Expression of Several Histone Deacetylases (HDACs) in the Mouse Nucleus Accumbens: Potential Regulatory Role of HDAC2 Expression. Neurotoxicity Research, 2016, 30, 32-40.	2.7	19
46	Neurochemical and behavioral comparisons of contingent and non-contingent methamphetamine exposure following binge or yoked long-access self-administration paradigms. Psychopharmacology, 2020, 237, 1989-2005.	3.1	19
47	Sex- and Brain Region-specific Changes in Gene Expression in Male and Female Rats as Consequences of Methamphetamine Self-administration and Abstinence. Neuroscience, 2021, 452, 265-279.	2.3	19
48	Genetic and Environmental Risk Factors for Cannabis Use: Preliminary Results for the Role of Parental Care Perception. Substance Use and Misuse, 2019, 54, 670-680.	1.4	18
49	Epigenetics of addiction. Neurochemistry International, 2021, 147, 105069.	3.8	18
50	CAMKII-conditional deletion of histone deacetylase 2 potentiates acute methamphetamine-induced expression of immediate early genes in the mouse nucleus accumbens. Scientific Reports, 2015, 5, 13396.	3.3	16
51	Selective Activation of Striatal NGF-TrkA/p75NTR/MAPK Intracellular Signaling in Rats That Show Suppression of Methamphetamine Intake 30 Days following Drug Abstinence. International Journal of Neuropsychopharmacology, 2018, 21, 281-290.	2.1	15
52	HDAC superfamily promoters acetylation is differentially regulated by modafinil and methamphetamine in the mouse medial prefrontal cortex. Addiction Biology, 2020, 25, e12737.	2.6	15
53	Methamphetamine increases expression of the apoptotic c-myc and l-myc genes in the mouse brain. Molecular Brain Research, 2001, 90, 202-204.	2.3	14
54	Compulsive methamphetamine taking induces autophagic and apoptotic markers in the rat dorsal striatum. Archives of Toxicology, 2020, 94, 3515-3526.	4.2	14

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55	Potassium Channels and Their Potential Roles in Substance Use Disorders. International Journal of Molecular Sciences, 2021, 22, 1249.	4.1	14
56	Substituted Amphetamines That Produce Long-Term Serotonin Depletion in Rat Brain (â€œNeurotoxicityâ€) Do Not Decrease Serotonin Transporter Protein Expression. Annals of the New York Academy of Sciences, 2004, 1025, 151-161.	3.8	12
57	Epigenetic Regulatory Dynamics in Models of Methamphetamine-Use Disorder. Genes, 2021, 12, 1614.	2.4	12
58	Fas-induced apoptosis of glioma cells is associated with down-regulation of the hSCO1 protein, a subunit of complex IV. Molecular Brain Research, 2001, 91, 131-136.	2.3	9
59	Epigenetic Landscape of Methamphetamine Use Disorder. Current Neuropharmacology, 2021, 19, 2060-2066.	2.9	7
60	Sex-Specific Alterations in Dopamine Metabolism in the Brain after Methamphetamine Self-Administration. International Journal of Molecular Sciences, 2022, 23, 4353.	4.1	6
61	Footshock-Induced Abstinence from Compulsive Methamphetamine Self-administration in Rat Model Is Accompanied by Increased Hippocampal Expression of Cannabinoid Receptors (CB1 and CB2). Molecular Neurobiology, 2022, 59, 1238-1248.	4.0	4
62	Differential Expression of mRNAs Coding for Histone Deacetylases (HDACs) in the Nucleus Accumbens of Compulsive Methamphetamine Takers and Abstinent Rats. Journal of Drug and Alcohol Research, 2016, 5, 1-9.	0.9	3
63	Methamphetamine pre-exposure induces steeper escalation of methamphetamine self-administration with consequent alterations in hippocampal glutamate AMPA receptor mRNAs. European Journal of Pharmacology, 2020, 889, 173732.	3.5	2
64	Footshockâ€induced abstinence from compulsive methamphetamine selfâ€administration is associated with increased expression of cannabinoid receptors (CB1 and CB2) in the rat hippocampus. FASEB Journal, 2021, 35, .	0.5	0
65	Epigenetics of Addiction. , 2022, , 383-389.		0
66	Identification of Putative Biomarkers in the Serum of Marijuana Users by Surfaceâ€Enhanced Laser Desorption/Ionization Time of Flight Mass Spectrometry (SELDIâ€TOFâ€MS). FASEB Journal, 2007, 21, A421.	0.5	0
67	Differential histone modifications induced by chronic methamphetamine exposure in the rat striatum. FASEB Journal, 2011, 25, 896.6.	0.5	0