

# Tsung-Ping Su

## List of Publications by Year in descending order

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102  
papers

9,546  
citations

41258

49  
h-index

40881

93  
g-index

103  
all docs

103  
docs citations

103  
times ranked

6622  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sigma-1 Receptor Chaperones at the ER- Mitochondrion Interface Regulate Ca <sup>2+</sup> Signaling and Cell Survival. <i>Cell</i> , 2007, 131, 596-610.	13.5	1,474
2	MAM: more than just a housekeeper. <i>Trends in Cell Biology</i> , 2009, 19, 81-88.	3.6	654
3	The pharmacology of sigma-1 receptors. , 2009, 124, 195-206.		575
4	The sigma-1 receptor chaperone as an inter-organelle signaling modulator. <i>Trends in Pharmacological Sciences</i> , 2010, 31, 557-566.	4.0	394
5	??-1 Receptor Ligands. <i>CNS Drugs</i> , 2004, 18, 269-284.	2.7	266
6	The Sigma-1 Receptor as a Pluripotent Modulator in Living Systems. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 262-278.	4.0	249
7	Sigma-1 Receptor Chaperone at the ER-Mitochondrion Interface Mediates the Mitochondrion-ER-Nucleus Signaling for Cellular Survival. <i>PLoS ONE</i> , 2013, 8, e76941.	1.1	239
8	Îf-1 Receptors (Îf1 Binding Sites) Form Raft-Like Microdomains and Target Lipid Droplets on the Endoplasmic Reticulum: Roles in Endoplasmic Reticulum Lipid Compartmentalization and Export. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 306, 718-725.	1.3	227
9	The sigma-1 receptor: roles in neuronal plasticity and disease. <i>Trends in Neurosciences</i> , 2012, 35, 762-771.	4.2	205
10	Targeting ligand-operated chaperone sigma-1 receptors in the treatment of neuropsychiatric disorders. <i>Expert Opinion on Therapeutic Targets</i> , 2011, 15, 557-577.	1.5	187
11	Understanding the Molecular Mechanism of Sigma-1 Receptors: Towards A Hypothesis that Sigma-1 Receptors are Intracellular Amplifiers for Signal Transduction. <i>Current Medicinal Chemistry</i> , 2003, 10, 2073-2080.	1.2	179
12	Intracellular Dynamics of Îf-1 Receptors (Îf1 Binding Sites) in NG108-15 Cells. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 306, 726-733.	1.3	176
13	Dynamic Interaction between Sigma-1 Receptor and Kv1.2 Shapes Neuronal and Behavioral Responses to Cocaine. <i>Cell</i> , 2013, 152, 236-247.	13.5	174
14	Sigma-1 receptors at galactosylceramide-enriched lipid microdomains regulate oligodendrocyte differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14949-14954.	3.3	147
15	Sigma-1 receptors regulate hippocampal dendritic spine formation via a free radical-sensitive mechanism involving Rac1-GTP pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22468-22473.	3.3	145
16	sigma receptors. Putative links between nervous, endocrine and immune systems. <i>FEBS Journal</i> , 1991, 200, 633-642.	0.2	142
17	Nerve Growth Factor-Induced Neurite Sprouting in PC12 Cells Involves Î,-1 Receptors: Implications for Antidepressants. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 303, 1227-1237.	1.3	125
18	Further studies on opioids and hibernation: Delta opioid receptor ligand selectively induced hibernation in summer-active ground squirrels. <i>Life Sciences</i> , 1988, 43, 1565-1574.	2.0	116

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19	PRE-084, a $\sigma$ 1 selective PCP derivative, attenuates MK-801-induced impairment of learning in mice. <i>Pharmacology Biochemistry and Behavior</i> , 1994, 49, 859-869.	1.3	115
20	Molecular mechanisms involving sigma receptor-mediated induction of MCP-1: implication for increased monocyte transmigration. <i>Blood</i> , 2010, 115, 4951-4962.	0.6	115
21	Sigma-1 and Sigma-2 sites in rat brain: Comparison of regional, ontogenetic, and subcellular patterns. <i>Synapse</i> , 1994, 17, 182-189.	0.6	111
22	Sigma-1 receptor chaperones regulate the secretion of brain-derived neurotrophic factor. <i>Synapse</i> , 2012, 66, 630-639.	0.6	110
23	Sigma-1 Receptor Chaperones and Diseases. <i>Central Nervous System Agents in Medicinal Chemistry</i> , 2009, 9, 184-189.	0.5	109
24	Neuroprotective effects of sigma-1 receptor agonists against beta-amyloid-induced toxicity. <i>NeuroReport</i> , 2005, 16, 1223-1226.	0.6	107
25	Delta opioid peptide (D-ALA 2, D-LEU 5) enkephalin: linking hibernation and neuroprotection. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 3392.	3.0	104
26	Chronic Antidepressants Potentiate via Sigma-1 Receptors the Brain-derived Neurotrophic Factor-induced Signaling for Glutamate Release. <i>Journal of Biological Chemistry</i> , 2006, 281, 12941-12949.	1.6	103
27	Sigma-1 receptor mediates cocaine-induced transcriptional regulation by recruiting chromatin-remodeling factors at the nuclear envelope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6562-70.	3.3	95
28	Involvement of the sigma1 receptor in the modulation of dopaminergic transmission by amantadine. <i>European Journal of Neuroscience</i> , 2004, 19, 2212-2220.	1.2	91
29	An update on the development of drugs for neuropsychiatric disorders: focusing on the $\sigma$ 1 receptor ligand. <i>Expert Opinion on Therapeutic Targets</i> , 2008, 12, 45-58.	1.5	91
30	When the Endogenous Hallucinogenic Trace Amine <i>N,N</i> -Dimethyltryptamine Meets the Sigma-1 Receptor. <i>Science Signaling</i> , 2009, 2, pe12.	1.6	90
31	Cocaine Hijacks $\sigma$ 1 Receptor to Initiate Induction of Activated Leukocyte Cell Adhesion Molecule: Implication for Increased Monocyte Adhesion and Migration in the CNS. <i>Journal of Neuroscience</i> , 2011, 31, 5942-5955.	1.7	90
32	Roles of sigma-1 receptors on mitochondrial functions relevant to neurodegenerative diseases. <i>Journal of Biomedical Science</i> , 2017, 24, 74.	2.6	86
33	Extension of tissue survival time in multiorgan block preparation with a delta opioid DADLE ([D-Ala2,D-Leu5]-enkephalin). <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994, 107, 964-967.	0.4	84
34	$\sigma$ -1 Receptors potentiate epidermal growth factor signaling towards neuritogenesis in PC12 cells: Potential relation to lipid raft reconstitution. <i>Synapse</i> , 2004, 53, 90-103.	0.6	81
35	Use of "Natural" Hibernation Induction Triggers for Myocardial Protection. <i>Annals of Thoracic Surgery</i> , 1997, 64, 623-627.	0.7	78
36	Regulation of $\sigma$ -1 Receptors and Endoplasmic Reticulum Chaperones in the Brain of Methamphetamine Self-Administering Rats. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 332, 1054-1063.	1.3	77

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37	The potential role of sigma-1 receptors in lipid transport and lipid raft reconstitution in the brain: Implication for drug abuse. <i>Life Sciences</i> , 2005, 77, 1612-1624.	2.0	76
38	Treatment with delta opioid peptide enhances in vitro and in vivo survival of rat dopaminergic neurons. <i>NeuroReport</i> , 2000, 11, 923-926.	0.6	74
39	The sigma-1 receptor modulates dopamine transporter conformation and cocaine binding and may thereby potentiate cocaine self-administration in rats. <i>Journal of Biological Chemistry</i> , 2017, 292, 11250-11261.	1.6	69
40	Cocaine and HIV-1 Interplay in CNS: Cellular and Molecular Mechanisms. <i>Current HIV Research</i> , 2012, 10, 425-428.	0.2	67
41	Antiapoptotic and cytotoxic properties of delta opioid peptide [D-Ala2,D-Leu5]enkephalin in PC12 cells. <i>Synapse</i> , 2002, 43, 86-94.	0.6	64
42	Diadenosine Tetrphosphate Protects against Injuries Induced by Ischemia and 6-Hydroxydopamine in Rat Brain. <i>Journal of Neuroscience</i> , 2003, 23, 7958-7965.	1.7	64
43	Sigma1 receptor upregulation after chronic methamphetamine self-administration in rats: a study with yoked controls. <i>Psychopharmacology</i> , 2004, 175, 68-75.	1.5	62
44	Sigma-1 receptor regulates Tau phosphorylation and axon extension by shaping p35 turnover via myristic acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6742-6747.	3.3	61
45	A Role for Sigma Receptors in Stimulant Self Administration and Addiction. <i>Pharmaceuticals</i> , 2011, 4, 880-914.	1.7	56
46	Extended lung preservation with the use of hibernation trigger factors. <i>Annals of Thoracic Surgery</i> , 1996, 61, 1488-1493.	0.7	54
47	Isolation and partial characterization of an opioid-like 88 kDa hibernation-related protein. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 787-805.	0.7	54
48	Sigma-1 receptor chaperones in neurodegenerative and psychiatric disorders. <i>Expert Opinion on Therapeutic Targets</i> , 2014, 18, 1-16.	1.5	54
49	Cholesterol at the Endoplasmic Reticulum: Roles of the Sigma-1 Receptor Chaperone and Implications thereof in Human Diseases. <i>Sub-Cellular Biochemistry</i> , 2010, 51, 381-398.	1.0	54
50	Bcl-2 family in inter-organelle modulation of calcium signaling; roles in bioenergetics and cell survival. <i>Journal of Bioenergetics and Biomembranes</i> , 2014, 46, 1-15.	1.0	52
51	Modulation of steroidal levels by adrenalectomy/castration and inhibition of neurosteroid synthesis enzymes affect sigma1 receptor-mediated behaviour in mice. <i>European Journal of Neuroscience</i> , 1999, 11, 2385-2396.	1.2	50
52	Methamphetamine Potentiates Ischemia/Reperfusion Insults After Transient Middle Cerebral Artery Ligation. <i>Stroke</i> , 2001, 32, 775-782.	1.0	49
53	THE USE OF HIBERNATION INDUCTION TRIGGERS FOR CARDIAC TRANSPLANT PRESERVATION <sup>1,2</sup> . <i>Transplantation</i> , 1997, 63, 326-329.	0.5	48
54	Cocaine and HIV-1 Interplay: Molecular Mechanisms of Action and Addiction. <i>Journal of NeuroImmune Pharmacology</i> , 2011, 6, 503-515.	2.1	47

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55	At the Crossing of ER Stress and MAMs: A Key Role of Sigma-1 Receptor?. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1131, 699-718.	0.8	47
56	Compromising $\sigma$ -1 Receptors at the Endoplasmic Reticulum Render Cytotoxicity to Physiologically Relevant Concentrations of Dopamine in a Nuclear Factor- $\kappa$ B/Bcl-2-Dependent Mechanism: Potential Relevance to Parkinson's Disease. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 341, 663-671.	1.3	46
57	Delta Opioid Peptide [ $\delta$ -Ala <sup>2</sup> , $\delta$ -Leu <sup>5</sup> ]Enkephalin Promotes Cell Survival. <i>Journal of Biomedical Science</i> , 2000, 7, 195-199.	2.6	45
58	Insights into the Sigma-1 receptor Chaperone's cellular functions: A microarray report. <i>Synapse</i> , 2012, 66, 42-51.	0.6	45
59	The Lifetime of UDP-galactose:Ceramide Galactosyltransferase Is Controlled by a Distinct Endoplasmic Reticulum-associated Degradation (ERAD) Regulated by Sigma-1 Receptor Chaperones. <i>Journal of Biological Chemistry</i> , 2012, 287, 43156-43169.	1.6	42
60	Opioids and hibernation. I. Effects of naloxone on bear hit's depression of guinea pig ileum contractility and on induction of summer hibernation in the ground squirrel. <i>Life Sciences</i> , 1987, 41, 2107-2113.	2.0	41
61	The non-apoptotic action of Bcl-xL: regulating Ca <sup>2+</sup> signaling and bioenergetics at the ER-mitochondrion interface. <i>Journal of Bioenergetics and Biomembranes</i> , 2016, 48, 211-225.	1.0	41
62	Opioids and hibernation. II. Effects of kappa opioid U69593 on induction of hibernation in summer-active ground squirrels by $\sigma$ -1 hibernation induction trigger (HIT). <i>Life Sciences</i> , 1987, 41, 2115-2120.	2.0	40
63	Cocaine affects the dynamics of cytoskeletal proteins via sigma1 receptors. <i>Trends in Pharmacological Sciences</i> , 2001, 22, 456-458.	4.0	40
64	A role for sigma receptors in stimulant self-administration and addiction. <i>Behavioural Pharmacology</i> , 2016, 27, 100-115.	0.8	40
65	Correlation of inhibitory potencies of putative antagonists for $\sigma$ receptors in brain and spleen. <i>European Journal of Pharmacology</i> , 1988, 148, 467-470.	1.7	36
66	Cocaine-induced endocannabinoid signaling mediated by sigma-1 receptors and extracellular vesicle secretion. <i>ELife</i> , 2019, 8, .	2.8	36
67	Potential Molecular Mechanisms on the Role of the Sigma-1 Receptor in the Action of Cocaine and Methamphetamine. <i>Journal of Drug and Alcohol Research</i> , 2016, 5, 1-15.	0.9	33
68	Combination Treatment of Hypothermia and Mesenchymal Stromal Cells Amplifies Neuroprotection in Primary Rat Neurons Exposed to Hypoxic-Ischemic-Like Injury In Vitro: Role of the Opioid System. <i>PLoS ONE</i> , 2012, 7, e47583.	1.1	32
69	Protein Kinase A Activation Down-Regulates, Whereas Extracellular Signal-Regulated Kinase Activation Up-Regulates $\sigma$ -1 Receptors in B-104 Cells: Implication for Neuroplasticity. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2007, 320, 202-210.	1.3	30
70	Activation of the sigma-1 receptor chaperone alleviates symptoms of Wolfram syndrome in preclinical models. <i>Science Translational Medicine</i> , 2022, 14, eabh3763.	5.8	29
71	Specificity protein 1-zinc finger protein 179 pathway is involved in the attenuation of oxidative stress following brain injury. <i>Redox Biology</i> , 2017, 11, 135-143.	3.9	27
72	Sigma-1 receptor chaperones rescue nucleocytoplasmic transport deficit seen in cellular and Drosophila ALS/FTD models. <i>Nature Communications</i> , 2020, 11, 5580.	5.8	26

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73	Loss of Sigma-1 Receptor Chaperone Promotes Astrocytosis and Enhances the Nrf2 Antioxidant Defense. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-14.	1.9	25
74	Knocking Out Sigma-1 Receptors Reveals Diverse Health Problems. <i>Cellular and Molecular Neurobiology</i> , 2022, 42, 597-620.	1.7	25
75	Delta opioid extends hypothermic preservation time of the lung. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996, 111, 259-267.	0.4	24
76	Delta opioid peptide [D-Ala <sup>2</sup> ,D-Leu <sup>5</sup> ]enkephalin promotes cell survival. <i>Journal of Biomedical Science</i> , 2000, 7, 195-199.	2.6	23
77	Hibernation-induction peptide and cell death: [d-Ala <sup>2</sup> ,d-Leu <sup>5</sup> ]enkephalin blocks Bax-related apoptotic processes. <i>European Journal of Pharmacology</i> , 2001, 428, 149-151.	1.7	23
78	Sp1 in Astrocyte Is Important for Neurite Outgrowth and Synaptogenesis. <i>Molecular Neurobiology</i> , 2020, 57, 261-277.	1.9	23
79	Nucleoporin POM121 signals TFEB-mediated autophagy via activation of SIGMAR1/sigma-1 receptor chaperone by pridopidine. <i>Autophagy</i> , 2023, 19, 126-151.	4.3	23
80	The sigma-1 receptor-zinc finger protein 179 pathway protects against hydrogen peroxide-induced cell injury. <i>Neuropharmacology</i> , 2016, 105, 1-9.	2.0	22
81	[d-Ala <sup>2</sup> , d-Leu <sup>5</sup> ]enkephalin blocks the methamphetamine-induced c-fos mRNA increase in mouse striatum. <i>European Journal of Pharmacology</i> , 1999, 366, R7-R8.	1.7	20
82	Delta opioid peptide [D-Ala <sup>2</sup> , D-Leu <sup>5</sup> ]enkephalin causes a near complete blockade of the neuronal damage induced by a single high dose of methamphetamine: Examining the role of p53. <i>Synapse</i> , 2001, 39, 305-312.	0.6	20
83	Detection of Isolated Mitochondria-Associated ER Membranes Using the Sigma-1 Receptor. <i>Methods in Molecular Biology</i> , 2016, 1376, 133-140.	0.4	19
84	Sigma-1 Receptors Fine-Tune the Neuronal Networks. <i>Advances in Experimental Medicine and Biology</i> , 2017, 964, 79-83.	0.8	18
85	Reversal by [d-Ala <sup>2</sup> ,d-Leu <sup>5</sup> ]enkephalin of the dopamine transporter loss caused by methamphetamine. <i>European Journal of Pharmacology</i> , 1999, 372, R5-R7.	1.7	17
86	Upregulation of Znf179 acetylation by SAHA protects cells against oxidative stress. <i>Redox Biology</i> , 2018, 19, 74-80.	3.9	17
87	Delta opioid peptide DADLE and naltrexone cause cell cycle arrest and differentiation in a CNS neural progenitor cell line. <i>Synapse</i> , 2010, 64, 267-273.	0.6	15
88	Neuroleptics with differential affinities at dopamine D2 receptors and sigma receptors affect differently the N-methyl-D-aspartate-induced increase in intracellular calcium concentration: Involvement of protein kinase. <i>Synapse</i> , 1999, 31, 20-28.	0.6	14
89	IP3 receptor antagonist heparin uncompetitively inhibits [3H](+)-SKF-10047 binding to $\beta$ f receptors. <i>European Journal of Pharmacology</i> , 1996, 311, R1-R2.	1.7	11
90	Genomic Action of Sigma-1 Receptor Chaperone Relates to Neuropathic Pain. <i>Molecular Neurobiology</i> , 2021, 58, 2523-2541.	1.9	10

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91	Steroid Binding at $\mu$ Receptors: CNS and Immunological Implications. Novartis Foundation Symposium, 1990, 153, 107-124.	1.2	10
92	Blockade of dopamine transporter and tyrosine hydroxylase activity loss by [d-Ala2, d-Leu5]enkephalin in methamphetamine-treated CD-1 mice. European Journal of Pharmacology, 2000, 404, 89-93.	1.7	8
93	Chronic [d-Ala2, d-Leu5]enkephalin treatment increases the nerve growth factor in adult mouse brain. European Journal of Pharmacology, 2003, 464, 237-239.	1.7	8
94	Non-canonical Targets Mediating the Action of Drugs of Abuse: Cocaine at the Sigma-1 Receptor as an Example. Frontiers in Neuroscience, 2019, 13, 761.	1.4	8
95	Extraordinary postmortem stability of kappa opioid receptors in guinea-pig brain. Journal of Pharmacy and Pharmacology, 2011, 39, 951-954.	1.2	6
96	Picomolar concentrations of hibernation induction delta opioid peptide [D-Ala2,D-Leu5]enkephalin increase the nerve growth factor in NG-108 cells. Synapse, 2005, 57, 179-181.	0.6	4
97	A Perspective on sigma-1 receptor research: Past and future. Journal of Pharmacological Sciences, 2015, 127, 1.	1.1	4
98	Myristic Acid Hitchhiking on Sigma-1 Receptor to Fend Off Neurodegeneration. Receptors & Clinical Investigation, 2016, 3, .	0.9	3
99	Subcellular Localization and Interacellular Dynamics of $\mu$ 1 Receptors. , 2007, , 151-164.		2
100	Sigma-1 Receptor May Participate in the Regulation of Epigenetic Modifications Related to Neuropathic Pain. FASEB Journal, 2020, 34, 1-1.	0.2	1
101	PT582. Myristic Acid Hitchhiking on Sigma-1 Receptor to Fend Off Neurodegeneration. International Journal of Neuropsychopharmacology, 2016, 19, 14-14.	1.0	0
102	Cocaine Regulates Endocannabinoids-Containing Extracellular Vesicles Release in Ventral Tegmental Area via Sigma-1 Receptor and ADP-Ribosylation Factor 6 Pathway. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO1-1-79.	0.0	0