

Susan Wonnacott

List of Publications by Year in descending order

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83
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7,288
citations

87723

38
h-index

60497

81
g-index

85
all docs

85
docs citations

85
times ranked

4582
citing authors

#	ARTICLE	IF	CITATIONS
1	Presynaptic nicotinic ACh receptors. Trends in Neurosciences, 1997, 20, 92-98.	4.2	1,161
2	Nicotinic acetylcholine receptors and the regulation of neuronal signalling. Trends in Pharmacological Sciences, 2004, 25, 317-324.	4.0	546
3	Characterization of Nicotinic Receptor-Mediated [³ H]Dopamine Release from Synaptosomes Prepared from Mouse Striatum. Journal of Neurochemistry, 1992, 59, 848-856.	2.1	342
4	Presynaptic Nicotinic Modulation of Dopamine Release in the Three Ascending Pathways Studied by In Vivo Microdialysis: Comparison of Naive and Chronic Nicotine-Treated Rats. Journal of Neurochemistry, 1997, 68, 1511-1519.	2.1	254
5	Precise Localization of $\alpha 7$ Nicotinic Acetylcholine Receptors on Glutamatergic Axon Terminals in the Rat Ventral Tegmental Area. Journal of Neuroscience, 2004, 24, 11244-11252.	1.7	248
6	Nicotine: from molecular mechanisms to behaviour. Current Opinion in Pharmacology, 2005, 5, 53-59.	1.7	243
7	Characterisation of the binding of [³ H]methyllycaconitine: a new radioligand for labelling $\alpha 7$ -type neuronal nicotinic acetylcholine receptors. Neuropharmacology, 1999, 38, 679-690.	2.0	235
8	$\alpha 7$ -Bungarotoxin-Sensitive Nicotinic Receptors Indirectly Modulate [³ H]Dopamine Release in Rat Striatal Slices via Glutamate Release. Molecular Pharmacology, 2000, 58, 312-318.	1.0	210
9	Presynaptic nicotinic receptors modulating dopamine release in the rat striatum. European Journal of Pharmacology, 2000, 393, 51-58.	1.7	204
10	Stereoselective Nicotine-Induced Release of Dopamine from Striatal Synaptosomes: Concentration Dependence and Repetitive Stimulation. Journal of Neurochemistry, 1988, 50, 1123-1130.	2.1	197
11	6-Hydroxydopamine-induced Apoptosis Is Mediated via Extracellular Auto-oxidation and Caspase 3-dependent Activation of Protein Kinase C β . Journal of Biological Chemistry, 2006, 281, 5373-5382.	1.6	193
12	Nicotinic Modulation of [³ H]Dopamine Release from Striatal Synaptosomes: Pharmacological Characterisation. Journal of Neurochemistry, 1990, 54, 937-945.	2.1	192
13	$\alpha 6$ and $\alpha 4$ Nicotinic Acetylcholine Receptors As Drug Targets for Parkinson's Disease. Pharmacological Reviews, 2011, 63, 938-966.	7.1	174
14	UB-165: A Novel Nicotinic Agonist with Subtype Selectivity Implicates the $\alpha 4$ Subtype in the Modulation of Dopamine Release from Rat Striatal Synaptosomes. Journal of Neuroscience, 2000, 20, 2783-2791.	1.7	161
15	Presynaptic localisation of the nicotinic acetylcholine receptor $\beta 2$ subunit immunoreactivity in rat nigrostriatal dopaminergic neurones. Journal of Comparative Neurology, 2001, 439, 235-247.	0.9	158
16	Presynaptic $\alpha 7$ - and $\alpha 2$ -Containing Nicotinic Acetylcholine Receptors Modulate Excitatory Amino Acid Release from Rat Prefrontal Cortex Nerve Terminals via Distinct Cellular Mechanisms. Molecular Pharmacology, 2008, 74, 348-359.	1.0	151
17	Intracellular Ca ²⁺ signals evoked by stimulation of nicotinic acetylcholine receptors in SH-SY5Y cells: contribution of voltage-operated Ca ²⁺ channels and Ca ²⁺ stores. Journal of Neurochemistry, 2002, 81, 606-614.	2.1	145
18	Methyllycaconitine Is a Potent Antagonist of $\alpha 7$ -Conotoxin-MII-Sensitive Presynaptic Nicotinic Acetylcholine Receptors in Rat Striatum. Journal of Pharmacology and Experimental Therapeutics, 2002, 302, 197-204.	1.3	139

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19	Methyllycaonitine and (+)-anatoxin-a differentiate between nicotinic receptors in vertebrate and invertebrate nervous systems. <i>FEBS Letters</i> , 1988, 226, 357-363.	1.3	131
20	Indirect Modulation by $\alpha 7$ Nicotinic Acetylcholine Receptors of Noradrenaline Release in Rat Hippocampal Slices: Interaction with Glutamate and GABA Systems and Effect of Nicotine Withdrawal. <i>Molecular Pharmacology</i> , 2006, 69, 618-628.	1.0	126
21	Nicotinic acetylcholine receptors and the ascending dopamine pathways. <i>Biochemical Pharmacology</i> , 2009, 78, 744-755.	2.0	121
22	$\alpha 7$ and non- $\alpha 7$ nicotinic acetylcholine receptors modulate dopamine release <i>in vitro</i> and <i>in vivo</i> in the rat prefrontal cortex. <i>European Journal of Neuroscience</i> , 2009, 29, 539-550.	1.2	121
23	An autoradiographic study of the distribution of binding sites for the novel $\alpha 7$ -selective nicotinic radioligand [^3H]-methyllycaonitine in the mouse brain. <i>European Journal of Neuroscience</i> , 1999, 11, 2689-2696.	1.2	110
24	Nicotinic Receptors Modulate Transmitter Cross Talk in the CNS: Nicotinic Modulation of Transmitters. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 137-140.	1.1	95
25	Molecular and Cellular Mechanisms of Action of Nicotine in the CNS. <i>Handbook of Experimental Pharmacology</i> , 2009, , 173-207.	0.9	92
26	Differential coupling of $\alpha 7$ and non- $\alpha 7$ nicotinic acetylcholine receptors to calcium-induced calcium release and voltage-operated calcium channels in PC12 cells. <i>Journal of Neurochemistry</i> , 2007, 100, 1089-1096.	2.1	85
27	α -Bungarotoxin Binds to Low-Affinity Nicotine Binding Sites in Rat Brain. <i>Journal of Neurochemistry</i> , 1986, 47, 1706-1712.	2.1	83
28	Evidence for Functional Activity of Up-Regulated Nicotine Binding Sites in Rat Striatal Synaptosomes. <i>Journal of Neurochemistry</i> , 1990, 55, 2105-2110.	2.1	82
29	From ligand design to therapeutic efficacy: the challenge for nicotinic receptor research. <i>Drug Discovery Today</i> , 2005, 10, 1657-1665.	3.2	80
30	Presynaptic $\alpha 7$ and non- $\alpha 7$ nicotinic acetylcholine receptors modulate [^3H]d-aspartate release from rat frontal cortex <i>in vitro</i> . <i>Neuropharmacology</i> , 2005, 49, 59-72.	2.0	72
31	Why doesn't nicotinic ACh receptor immunoreactivity knock out?. <i>Trends in Neurosciences</i> , 2005, 28, 343-345.	4.2	59
32	Hippocampal nicotinic autoreceptors modulate acetylcholine release. <i>Biochemical Society Transactions</i> , 1993, 21, 429-431.	1.6	58
33	Differential effects of chronic drug treatment on $\alpha 3^*$ and $\alpha 7$ nicotinic receptor binding sites, in hippocampal neurones and SH-SY5Y cells. <i>British Journal of Pharmacology</i> , 2001, 133, 1286-1295.	2.7	54
34	Synthesis and Pharmacological Characterization of Novel Analogues of the Nicotinic Acetylcholine Receptor Agonist (α)-UB-165. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3235-3245.	2.9	53
35	Characterization of a nicotinic acetylcholine receptor from the insect <i>Manduca sexta</i> . <i>European Journal of Neuroscience</i> , 1998, 10, 879-889.	1.2	49
36	Presynaptic Nicotinic Receptors and the Modulation of Transmitter Release. <i>Novartis Foundation Symposium</i> , 1990, 152, 87-112.	1.2	46

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37	$\alpha 7$ -Conotoxin <i>Arenatus</i> IB[V11L,V16D] Is a Potent and Selective Antagonist at Rat and Human Native $\alpha 7$ Nicotinic Acetylcholine Receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 327, 529-537.	1.3	45
38	Glutamate-Dopamine Crosstalk in the Rat Prefrontal Cortex is Modulated by $\alpha 7$ Nicotinic Receptors and Potentiated by PNU-120596. <i>Journal of Molecular Neuroscience</i> , 2010, 40, 172-176.	1.1	43
39	Comparison of the effects of bupropion and nicotine on locomotor activation and dopamine release in vivo. <i>Biochemical Pharmacology</i> , 2007, 74, 1292-1298.	2.0	39
40	The neurotoxin histrionicotoxin interacts with the putative ion channel of the nicotinic acetylcholine receptors in the central nervous system. <i>FEBS Letters</i> , 1987, 212, 292-296.	1.3	37
41	Conversion of the sodium channel activator aconitine into a potent $\alpha 7$ -selective nicotinic ligand. <i>FEBS Letters</i> , 1995, 365, 79-82.	1.3	37
42	Effects of chronic drug treatments on increases in intracellular calcium mediated by nicotinic acetylcholine receptors in SH-SY5Y cells. <i>British Journal of Pharmacology</i> , 2002, 135, 1051-1059.	2.7	37
43	Drug discrimination and neurochemical studies in $\alpha 7$ null mutant mice: tests for the role of nicotinic $\alpha 7$ receptors in dopamine release. <i>Psychopharmacology</i> , 2009, 203, 399-410.	1.5	37
44	Involvement of protein kinase C in the presynaptic nicotinic modulation of [³ H]-dopamine release from rat striatal synaptosomes. <i>British Journal of Pharmacology</i> , 2001, 132, 785-791.	2.7	32
45	Functional responses and subunit composition of presynaptic nicotinic receptor subtypes explored using the novel agonist 5-iodo-A-85380. <i>Neuropharmacology</i> , 2004, 47, 848-859.	2.0	31
46	Unlocking Nicotinic Selectivity via Direct C-H Functionalization of (α)-Cytisine. <i>CheM</i> , 2018, 4, 1710-1725.	5.8	31
47	C3-halogenation of cytisine generates potent and efficacious nicotinic receptor agonists. <i>European Journal of Pharmacology</i> , 2006, 536, 1-11.	1.7	29
48	Inhibition of $\alpha 7$ nicotinic receptors in the ventral hippocampus selectively attenuates reinstatement of morphine-conditioned place preference and associated changes in AMPA receptor binding. <i>Addiction Biology</i> , 2019, 24, 590-603.	1.4	28
49	In vivo modulation of dopaminergic nigrostriatal pathways by cytisine derivatives: Implications for Parkinson's Disease. <i>European Journal of Pharmacology</i> , 2008, 589, 80-84.	1.7	26
50	6-Substituted 2-azabicyclo[2.2.1]hept-5-enes by nitrogen-directed radical rearrangement: synthesis of an epibatidine analogue with high binding affinity at the nicotinic acetylcholine receptor Electronic supplementary information (ESI) available: details of biological studies. See http://www.rsc.org/suppdata/p1/b1/b107414h/ . <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2001, , 3150-3158.	1.3	25
51	A General Mechanism for Signal Propagation in the Nicotinic Acetylcholine Receptor Family. <i>Journal of the American Chemical Society</i> , 2019, 141, 19953-19958.	6.6	25
52	Alpha bungarotoxin-1.4nm gold: a novel conjugate for visualising the precise subcellular distribution of $\alpha 7$ nicotinic acetylcholine receptors. <i>Journal of Neuroscience Methods</i> , 2004, 134, 65-74.	1.3	24
53	Nicotinic Acetylcholine Receptors Control Encoding and Retrieval of Associative Recognition Memory through Plasticity in the Medial Prefrontal Cortex. <i>Cell Reports</i> , 2018, 22, 3409-3415.	2.9	24
54	Identification of the Initial Steps in Signal Transduction in the $\alpha 4\beta 2$ Nicotinic Receptor: Insights from Equilibrium and Nonequilibrium Simulations. <i>Structure</i> , 2019, 27, 1171-1183.e3.	1.6	24

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55	Integration of inhibitory and excitatory effects of $\alpha 7$ nicotinic acetylcholine receptor activation in the prefrontal cortex regulates network activity and plasticity. <i>Neuropharmacology</i> , 2016, 105, 618-629.	2.0	21
56	In silico characterization of cytisinoids docked into an acetylcholine binding protein. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010, 20, 3683-3687.	1.0	20
57	Development of an anti-cotinine vaccine to potentiate nicotine-based smoking cessation strategies. <i>Vaccine</i> , 2007, 25, 7354-7362.	1.7	18
58	Structure-activity studies of bicyclic and tricyclic analogues of methyllycaconitine. <i>Biochemical Society Transactions</i> , 1997, 25, 545S-545S.	1.6	17
59	Alkyl-modified side chain variants of anatoxin-a: A series of potent nicotinic agonists. <i>Drug Development Research</i> , 1994, 31, 147-156.	1.4	16
60	Pharmacological Differences Between Rat Frontal Cortex and Hippocampus in the Nicotinic Modulation of Noradrenaline Release Implicate Distinct Receptor Subtypes. <i>Nicotine and Tobacco Research</i> , 2012, 14, 1339-1345.	1.4	16
61	Nicotinic acetylcholine receptors in primary cultures of hippocampal neurons: pharmacology and Ca^{++} permeability. <i>Biochemical Society Transactions</i> , 1994, 22, 294S-294S.	1.6	15
62	Interrelationship of Concanavalin-A-Binding and Antigenic Sites on the Acetylcholine Receptor from <i>Torpedo marmorata</i> . <i>FEBS Journal</i> , 1980, 108, 621-629.	0.2	13
63	Comparison of the effects of bupropion on nicotinic receptor-evoked $[3H]$ dopamine release from rat striatal synaptosomes and slices. <i>European Journal of Pharmacology</i> , 2007, 567, 102-109.	1.7	11
64	Characterisation of the relationship between binding sites for imidacloprid and other nicotinic ligands in insects. <i>Pest Management Science</i> , 1999, 55, 1029-1031.	0.7	9
65	Acetylcholine. , 2012, , 258-282.		9
66	Oligomerisation differentially affects the acute and chronic actions of amyloid- β^2 in vitro. <i>Neuropharmacology</i> , 2010, 59, 343-352.	2.0	8
67	Nicotine: not just for cigarettes anymore. <i>Drug Discovery Today</i> , 1999, 4, 490-492.	3.2	7
68	Sazetidine-A Activates and Desensitizes Native $\alpha 7$ Nicotinic Acetylcholine Receptors. <i>Neurochemical Research</i> , 2015, 40, 2047-2054.	1.6	7
69	Presynaptic nicotinic autoreceptors in rat hippocampus. <i>Biochemical Society Transactions</i> , 1985, 13, 164-165.	1.6	6
70	Separation of pre- and post-synaptic receptors on Percoll gradients. <i>Biochemical Society Transactions</i> , 1990, 18, 885-886.	1.6	6
71	Selective Probes for Nicotinic Acetylcholine Receptors from Substituted AE-Bicyclic Analogs of Methyllycaconitine. <i>ACS Symposium Series</i> , 1998, , 194-205.	0.5	6
72	Increase in locomotor activity after acute administration of the nicotinic receptor agonist 3-bromocytisine in rats. <i>European Journal of Pharmacology</i> , 2010, 634, 89-94.	1.7	6

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73	A conserved arginine with non-conserved function is a key determinant of agonist selectivity in $\alpha 7$ nicotinic ACh receptors. <i>British Journal of Pharmacology</i> , 2021, 178, 1651-1668.	2.7	6
74	Subcellular fractionation and distribution of cholinergic binding sites in fetal human brain. <i>Neurochemical Research</i> , 1986, 11, 1011-1023.	1.6	5
75	The relevance of receptor binding studies to tobacco research. <i>Addiction</i> , 1991, 86, 537-541.	1.7	5
76	Differential upregulation of $\alpha 7$ and $\alpha 3$ subunit-containing nicotinic acetylcholine receptors in rat hippocampal and PC12 cell cultures. <i>Biochemical Society Transactions</i> , 1997, 25, 544S-544S.	1.6	5
77	Comparison of the effects of neosurugatoxin and α -bungarotoxin on nicotinic acetylcholine receptors in rat brain. <i>Biochemical Society Transactions</i> , 1985, 13, 1212-1213.	1.6	3
78	Inhibition by anti-(nicotinic acetylcholine receptor) antibodies of acetylcholine-induced dopamine release from striatal nerve terminals. <i>Biochemical Society Transactions</i> , 1981, 9, 410-411.	1.6	2
79	Ion fluxes associated with transmitter release in perfused synaptosomes. <i>Biochemical Society Transactions</i> , 1986, 14, 598-599.	1.6	2
80	Pharmacology of nicotinic acetylcholine receptor (nAChR) upregulation in the transfected cell line, M10. <i>Biochemical Society Transactions</i> , 1997, 25, 550S-550S.	1.6	2
81	A new synthesis and preliminary evaluation of some analogues of mecamylamine – a compound with anti-addiction properties. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10787-10798.	1.5	2
82	Comparison of ^{125}I - α -bungarotoxin and (3H)-nicotine binding in insect ganglia. <i>Biochemical Society Transactions</i> , 1987, 15, 500-501.	1.6	1
83	Ethyl-for-methyl substitution enhances the subtype specificity of mecamylamine analogues. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 9892-9905.	1.5	0