Nicole A Horenstein

List of Publications by Year
in descending order

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47 papers	1,039 citations	331670 21 h-index	434195 31 g-index
48 all docs	48 docs citations	48 times ranked	785 citing authors

#	Article	IF	Citations
1	Nicotinic Activity of Arecoline, the Psychoactive Element of "Betel Nuts", Suggests a Basis for Habitual Use and Anti-Inflammatory Activity. PLoS ONE, 2015, 10, e0140907.	2.5	96
2	Activation and Desensitization of Nicotinic Î±7-type Acetylcholine Receptors by Benzylidene Anabaseines and Nicotine. Journal of Pharmacology and Experimental Therapeutics, 2009, 329, 791-807.	2.5	83
3	Multiple Pharmacophores for the Selective Activation of Nicotinic Î±7-Type Acetylcholine Receptors. Molecular Pharmacology, 2008, 74, 1496-1511.	2.3	52
4	The effective opening of nicotinic acetylcholine receptors with single agonist binding sites. Journal of General Physiology, 2011, 137, 369-384.	1.9	44
5	Critical Molecular Determinants of Î±7 Nicotinic Acetylcholine Receptor Allosteric Activation. Journal of Biological Chemistry, 2016, 291, 5049-5067.	3.4	43
6	Therapeutic Targeting of <i>Î±</i>7 Nicotinic Acetylcholine Receptors. Pharmacological Reviews, 2021, 73, 1118-1149.	16.0	43
7	Synthesis and evaluation of a conditionally-silent agonist for the Î±7 nicotinic acetylcholine receptor. Bioorganic and Medicinal Chemistry Letters, 2013, 23, 4145-4149.	2.2	41
8	The Minimal Pharmacophore for Silent Agonism of the Î±7 Nicotinic Acetylcholine Receptor. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 665-680.	2.5	41
9	Anti-inflammatory Silent Agonists. ACS Medicinal Chemistry Letters, 2017, 8, 989-991.	2.8	38
10	The Activity of GAT107, an Allosteric Activator and Positive Modulator of Î±7 Nicotinic Acetylcholine Receptors (nAChR), Is Regulated by Aromatic Amino Acids That Span the Subunit Interface. Journal of Biological Chemistry, 2014, 289, 4515-4531.	3.4	36
11	A silent agonist of Î±7 nicotinic acetylcholine receptors modulates inflammation ex vivo and attenuates EAE. Brain, Behavior, and Immunity, 2020, 87, 286-300.	4.1	35
12	Effects at a distance in Î±7 nAChR selective agonists: benzylidene substitutions that regulate potency and efficacy. Neuropharmacology, 2004, 46, 1023-1038.	4.1	32
13	Reversal of Agonist Selectivity by Mutations of Conserved Amino Acids in the Binding Site of Nicotinic Acetylcholine Receptors. Journal of Biological Chemistry, 2007, 282, 5899-5909.	3.4	31
14	Dissection of N,N-diethyl-Nâ€²-phenylpiperazines as Î±7 nicotinic receptor silent agonists. Bioorganic and Medicinal Chemistry, 2016, 24, 286-293.	3.0	31
15	Persistent activation of Î±7 nicotinic ACh receptors associated with stable induction of different desensitized states. British Journal of Pharmacology, 2018, 175, 1838-1854.	5.4	31
16	Identification of a Gene Cluster that Initiates Azasugar Biosynthesis in <i>Bacillus amyloliquefaciens</i>. ChemBioChem, 2011, 12, 2147-2150.	2.6	30
17	Cysteine accessibility analysis of the human alpha7 nicotinic acetylcholine receptor ligand-binding domain identifies L119 as a gatekeeper. Neuropharmacology, 2011, 60, 159-171.	4.1	26
18	Cracking the Betel Nut: Cholinergic Activity of Areca Alkaloids and Related Compounds. Nicotine and Tobacco Research, 2019, 21, 805-812.	2.6	25

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19	Differential Regulation of Receptor Activation and Agonist Selectivity by Highly Conserved Tryptophans in the Nicotinic Acetylcholine Receptor Binding Site. Journal of Pharmacology and Experimental Therapeutics, 2009, 330, 40-53.	2.5	24
20	Allosteric Agonism of Î±7 Nicotinic Acetylcholine Receptors: Receptor Modulation Outside the Orthosteric Site. Molecular Pharmacology, 2019, 95, 606-614.	2.3	24
21	Tethered Agonist Analogs as Site-Specific Probes for Domains of the Human Î±7 Nicotinic Acetylcholine Receptor that Differentially Regulate Activation and Desensitization. Molecular Pharmacology, 2010, 78, 1012-1025.	2.3	23
22	Macroscopic and Microscopic Activation of <i>Î±</i>7 Nicotinic Acetylcholine Receptors by the Structurally Unrelated Allosteric Agonist-Positive Allosteric Modulators (ago-PAMs) B-973B and GAT107. Molecular Pharmacology, 2019, 95, 43-61.	2.3	21
23	The Antinociceptive and Anti-Inflammatory Properties of the <i>Î±</i>7 nAChR Weak Partial Agonist <i>p</i>-CF₃<i>N</i>,<i>N</i>-diethyl-<i>N</i>â€²-phenylpiperazine. Journal of Pharmacology and Experimental Therapeutics, 2018, 367, 203-214.	2.5	17
24	Identification of Î±7 Nicotinic Acetylcholine Receptor Silent Agonists Based on the Spirocyclic Quinuclidineâ€Î”²â€Isoxazoline Scaffold: Synthesis and Electrophysiological Evaluation. ChemMedChem, 2017, 12, 1335-1348.	3.2	15
25	A new route into hexahydro-cyclopenta[b]pyrrole-cis-3a,6-diols. Synthesis of constrained bicyclic analogues of pyrrolidine azasugars. Tetrahedron, 2005, 61, 10462-10469.	1.9	13
26	Design, synthesis, and electrophysiological evaluation of NS6740 derivatives: Exploration of the structure-activity relationship for alpha7 nicotinic acetylcholine receptor silent activation. European Journal of Medicinal Chemistry, 2020, 205, 112669.	5.5	12
27	Differing Activity Profiles of the Stereoisomers of 2,3,5,6TMP-TQS, a Putative Silent Allosteric Modulator of <i>Î±</i>7 nAChR. Molecular Pharmacology, 2020, 98, 292-302.	2.3	12
28	Comparison of the Anti-inflammatory Properties of Two Nicotinic Acetylcholine Receptor Ligands, Phosphocholine and pCF3-diEPP. Frontiers in Cellular Neuroscience, 2022, 16, 779081.	3.7	11
29	Sulfonium as a Surrogate for Ammonium: A New Î±7 Nicotinic Acetylcholine Receptor Partial Agonist with Desensitizing Activity. Journal of Medicinal Chemistry, 2017, 60, 7928-7934.	6.4	10
30	Heteromeric Neuronal Nicotinic Acetylcholine Receptors with Mutant <i>Î²</i> Subunits Acquire Sensitivity to <i>Î±</i>7-Selective Positive Allosteric Modulators. Journal of Pharmacology and Experimental Therapeutics, 2019, 370, 252-268.	2.5	10
31	Selective Agonists and Antagonists of Î±9 Versus Î±7 Nicotinic Acetylcholine Receptors. ACS Chemical Neuroscience, 2022, 13, 624-637.	3.5	10
32	Novel 5-(quinuclidin-3-ylmethyl)-1,2,4-oxadiazoles to investigate the activation of the Î±7 nicotinic acetylcholine receptor subtype: Synthesis and electrophysiological evaluation. European Journal of Medicinal Chemistry, 2018, 160, 207-228.	5.5	9
33	Potential State-selective Hydrogen Bond Formation Can Modulate Activation and Desensitization of the Î±7 Nicotinic Acetylcholine Receptor. Journal of Biological Chemistry, 2012, 287, 21957-21969.	3.4	8
34	Synthesis of saccharin-glycoconjugates targeting carbonic anhydrase using a one-pot cyclization/deprotection strategy. Carbohydrate Research, 2019, 476, 65-70.	2.3	8
35	Characterization of the PLP-dependent transaminase initiating azasugar biosynthesis. Biochemical Journal, 2018, 475, 2241-2256.	3.7	7
36	Synthesis of endo-(3-azabicyclo[3.1.0]hex-6-yl)-methanol and derivatives as new geometric/charge mimics of glycosyltransfer transition states. Tetrahedron Letters, 2004, 45, 9505-9507.	1.4	6

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37	Experimental and Metabolic Modeling Evidence for a Folate-Cleaving Side-Activity of Ketopantoate Hydroxymethyltransferase (PanB). Frontiers in Microbiology, 2016, 7, 431.	3.5	6
38	Functional Analysis of a Gene Cluster from <i>Chitinophaga pinensis</i> Involved in Biosynthesis of the Pyrrolidine Azasugar DAB-1. Journal of Natural Products, 2019, 82, 3401-3409.	3.0	6
39	Comparative genomic analysis of azasugar biosynthesis. AMB Express, 2021, 11, 120.	3.0	5
40	Coffee and cigarettes: Modulation of high and low sensitivity Î±4Î²2 nicotinic acetylcholine receptors by n-MP, a biomarker of coffee consumption. Neuropharmacology, 2022, 216, 109173.	4.1	5
41	Synthesis of H-bonding probes of Î±7 nAChR agonist selectivity. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 474-476.	2.2	4
42	Synthesis of 3,5-diazabicyclo [5.1.0] octenes. A new platform to mimic glycosidase transition states. Tetrahedron, 2010, 66, 5566-5572.	1.9	4
43	Stable desensitization of Î±7 nicotinic acetylcholine receptors by NS6740 requires interaction with S36 in the orthosteric agonist binding site. European Journal of Pharmacology, 2021, 905, 174179.	3.5	4
44	Point-to-point ligandâ€"receptor interactions across the subunit interface modulate the induction and stabilization of conformational states of alpha7 nAChR by benzylidene anabaseines. Biochemical Pharmacology, 2013, 85, 817-828.	4.4	3
45	Sulfonium Ligands of the Î±7 nAChR. Molecules, 2021, 26, 5643.	3.8	2
46	Enzymatic synthesis of [1-14C-N-acetyl, P18O2] cytidine monophosphate neuraminic acid. Journal of Labelled Compounds and Radiopharmaceuticals, 2004, 47, 1007-1017.	1.0	1
47	A Computational Analysis of the Factors Governing the Dynamics of Î±7 nAChR and Its Homologs. Biophysical Journal, 2020, 119, 1656-1669.	0.5	1