

# Nicole A Horenstein

## List of Publications by Year in descending order

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47  
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citations

331670

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434195

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48  
docs citations

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times ranked

785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Agonists and Antagonists of $\alpha 9$ Versus $\alpha 7$ Nicotinic Acetylcholine Receptors. ACS Chemical Neuroscience, 2022, 13, 624-637.	3.5	10
2	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
3	Coffee and cigarettes: Modulation of high and low sensitivity $\alpha 4\beta 2$ nicotinic acetylcholine receptors by n-MP, a biomarker of coffee consumption. Neuropharmacology, 2022, 216, 109173.	4.1	5
4	Therapeutic Targeting of $\alpha 7$ Nicotinic Acetylcholine Receptors. Pharmacological Reviews, 2021, 73, 1118-1149.	16.0	43
5	Stable desensitization of $\alpha 7$ 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
6	Comparative genomic analysis of azasugar biosynthesis. AMB Express, 2021, 11, 120.	3.0	5
7	Sulfonium Ligands of the $\alpha 7$ nAChR. Molecules, 2021, 26, 5643.	3.8	2
8	A silent agonist of $\alpha 7$ nicotinic acetylcholine receptors modulates inflammation ex vivo and attenuates EAE. Brain, Behavior, and Immunity, 2020, 87, 286-300.	4.1	35
9	A Computational Analysis of the Factors Governing the Dynamics of $\alpha 7$ nAChR and Its Homologs. Biophysical Journal, 2020, 119, 1656-1669.	0.5	1
10	Design, synthesis, and electrophysiological evaluation of NS6740 derivatives: Exploration of the structure-activity relationship for $\alpha 7$ nicotinic acetylcholine receptor silent activation. European Journal of Medicinal Chemistry, 2020, 205, 112669.	5.5	12
11	Differing Activity Profiles of the Stereoisomers of 2,3,5,6TMP-TQS, a Putative Silent Allosteric Modulator of $\alpha 7$ nAChR. Molecular Pharmacology, 2020, 98, 292-302.	2.3	12
12	Heteromeric Neuronal Nicotinic Acetylcholine Receptors with Mutant $\alpha 2$ Subunits Acquire Sensitivity to $\alpha 7$ -Selective Positive Allosteric Modulators. Journal of Pharmacology and Experimental Therapeutics, 2019, 370, 252-268.	2.5	10
13	Synthesis of saccharin-glycoconjugates targeting carbonic anhydrase using a one-pot cyclization/deprotection strategy. Carbohydrate Research, 2019, 476, 65-70.	2.3	8
14	Allosteric Agonism of $\alpha 7$ Nicotinic Acetylcholine Receptors: Receptor Modulation Outside the Orthosteric Site. Molecular Pharmacology, 2019, 95, 606-614.	2.3	24
15	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
16	Macroscopic and Microscopic Activation of $\alpha 7$ 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
17	Cracking the Betel Nut: Cholinergic Activity of Areca Alkaloids and Related Compounds. Nicotine and Tobacco Research, 2019, 21, 805-812.	2.6	25
18	Persistent activation of $\alpha 7$ nicotinic ACh receptors associated with stable induction of different desensitized states. British Journal of Pharmacology, 2018, 175, 1838-1854.	5.4	31

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19	Novel 5-(quinuclidin-3-ylmethyl)-1,2,4-oxadiazoles to investigate the activation of the $\alpha 7$ nicotinic acetylcholine receptor subtype: Synthesis and electrophysiological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2018, 160, 207-228.	5.5	9
20	The Antinociceptive and Anti-Inflammatory Properties of the $\alpha 7$ nAChR Weak Partial Agonist $\beta$ -CF <sub>3</sub> -N,N-diethyl-N- $\epsilon$ -phenylpiperazine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2018, 367, 203-214.	2.5	17
21	Characterization of the PLP-dependent transaminase initiating azasugar biosynthesis. <i>Biochemical Journal</i> , 2018, 475, 2241-2256.	3.7	7
22	Identification of $\alpha 7$ Nicotinic Acetylcholine Receptor Silent Agonists Based on the Spirocyclic Quinuclidine- $\epsilon$ -soxazoline Scaffold: Synthesis and Electrophysiological Evaluation. <i>ChemMedChem</i> , 2017, 12, 1335-1348.	3.2	15
23	Anti-inflammatory Silent Agonists. <i>ACS Medicinal Chemistry Letters</i> , 2017, 8, 989-991.	2.8	38
24	Sulfonium as a Surrogate for Ammonium: A New $\alpha 7$ Nicotinic Acetylcholine Receptor Partial Agonist with Desensitizing Activity. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7928-7934.	6.4	10
25	Experimental and Metabolic Modeling Evidence for a Folate-Cleaving Side-Activity of Ketopantoate Hydroxymethyltransferase (PanB). <i>Frontiers in Microbiology</i> , 2016, 7, 431.	3.5	6
26	Critical Molecular Determinants of $\alpha 7$ Nicotinic Acetylcholine Receptor Allosteric Activation. <i>Journal of Biological Chemistry</i> , 2016, 291, 5049-5067.	3.4	43
27	Dissection of N,N-diethyl-N- $\epsilon$ -phenylpiperazines as $\alpha 7$ nicotinic receptor silent agonists. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 286-293.	3.0	31
28	Nicotinic Activity of Arecoline, the Psychoactive Element of "Betel Nuts", Suggests a Basis for Habitual Use and Anti-Inflammatory Activity. <i>PLoS ONE</i> , 2015, 10, e0140907.	2.5	96
29	The Minimal Pharmacophore for Silent Agonism of the $\alpha 7$ Nicotinic Acetylcholine Receptor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 665-680.	2.5	41
30	The Activity of GAT107, an Allosteric Activator and Positive Modulator of $\alpha 7$ Nicotinic Acetylcholine Receptors (nAChR), Is Regulated by Aromatic Amino Acids That Span the Subunit Interface. <i>Journal of Biological Chemistry</i> , 2014, 289, 4515-4531.	3.4	36
31	Synthesis and evaluation of a conditionally-silent agonist for the $\alpha 7$ nicotinic acetylcholine receptor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 4145-4149.	2.2	41
32	Point-to-point ligand-receptor interactions across the subunit interface modulate the induction and stabilization of conformational states of $\alpha 7$ nAChR by benzylidene anabaseines. <i>Biochemical Pharmacology</i> , 2013, 85, 817-828.	4.4	3
33	Potential State-selective Hydrogen Bond Formation Can Modulate Activation and Desensitization of the $\alpha 7$ Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2012, 287, 21957-21969.	3.4	8
34	Cysteine accessibility analysis of the human $\alpha 7$ nicotinic acetylcholine receptor ligand-binding domain identifies L119 as a gatekeeper. <i>Neuropharmacology</i> , 2011, 60, 159-171.	4.1	26
35	Identification of a Gene Cluster that Initiates Azasugar Biosynthesis in <i>Bacillus amyloliquefaciens</i> . <i>ChemBioChem</i> , 2011, 12, 2147-2150.	2.6	30
36	The effective opening of nicotinic acetylcholine receptors with single agonist binding sites. <i>Journal of General Physiology</i> , 2011, 137, 369-384.	1.9	44

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37	Synthesis of 3,5-diazabicyclo [5.1.0] octenes. A new platform to mimic glycosidase transition states. <i>Tetrahedron</i> , 2010, 66, 5566-5572.	1.9	4
38	Tethered Agonist Analogs as Site-Specific Probes for Domains of the Human $\alpha 7$ Nicotinic Acetylcholine Receptor that Differentially Regulate Activation and Desensitization. <i>Molecular Pharmacology</i> , 2010, 78, 1012-1025.	2.3	23
39	Activation and Desensitization of Nicotinic $\alpha 7$ -type Acetylcholine Receptors by Benzylidene Anabaseines and Nicotine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 329, 791-807.	2.5	83
40	Differential Regulation of Receptor Activation and Agonist Selectivity by Highly Conserved Tryptophans in the Nicotinic Acetylcholine Receptor Binding Site. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 330, 40-53.	2.5	24
41	Synthesis of H-bonding probes of $\alpha 7$ nAChR agonist selectivity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 474-476.	2.2	4
42	Multiple Pharmacophores for the Selective Activation of Nicotinic $\alpha 7$ -Type Acetylcholine Receptors. <i>Molecular Pharmacology</i> , 2008, 74, 1496-1511.	2.3	52
43	Reversal of Agonist Selectivity by Mutations of Conserved Amino Acids in the Binding Site of Nicotinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2007, 282, 5899-5909.	3.4	31
44	A new route into hexahydro-cyclopenta[b]pyrrole-cis-3a,6-diols. Synthesis of constrained bicyclic analogues of pyrrolidine azasugars. <i>Tetrahedron</i> , 2005, 61, 10462-10469.	1.9	13
45	Enzymatic synthesis of [1- <sup>14</sup> C-N-acetyl, P18O2] cytidine monophosphate neuraminic acid. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2004, 47, 1007-1017.	1.0	1
46	Synthesis of endo-(3-azabicyclo[3.1.0]hex-6-yl)-methanol and derivatives as new geometric/charge mimics of glycosyltransfer transition states. <i>Tetrahedron Letters</i> , 2004, 45, 9505-9507.	1.4	6
47	Effects at a distance in $\alpha 7$ nAChR selective agonists: benzylidene substitutions that regulate potency and efficacy. <i>Neuropharmacology</i> , 2004, 46, 1023-1038.	4.1	32