

# Rahul Srinivasan, Mbbs

## List of Publications by Year in descending order

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36  
papers

1,757  
citations

394421

19  
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477307

29  
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41  
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41  
docs citations

41  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ca <sup>2+</sup> signaling in astrocytes from <i>Ip3r2<sup>+/+</sup></i> mice in brain slices and during startle responses in vivo. <i>Nature Neuroscience</i> , 2015, 18, 708-717.	14.8	411
2	New Transgenic Mouse Lines for Selectively Targeting Astrocytes and Studying Calcium Signals in Astrocyte Processes In Situ and In Vivo. <i>Neuron</i> , 2016, 92, 1181-1195.	8.1	283
3	Nicotine up-regulates $\alpha 4\beta 2$ nicotinic receptors and ER exit sites via stoichiometry-dependent chaperoning. <i>Journal of General Physiology</i> , 2011, 137, 59-79.	1.9	153
4	Nicotine is a Selective Pharmacological Chaperone of Acetylcholine Receptor Number and Stoichiometry. Implications for Drug Discovery. <i>AAPS Journal</i> , 2009, 11, 167-177.	4.4	148
5	Live-Cell Imaging of Single Receptor Composition Using Zero-Mode Waveguide Nanostructures. <i>Nano Letters</i> , 2012, 12, 3690-3694.	9.1	63
6	Nicotine exploits a COPI-mediated process for chaperone-mediated up-regulation of its receptors. <i>Journal of General Physiology</i> , 2014, 143, 51-66.	1.9	61
7	Engineering an endomorphin-2 gene for use in neuropathic pain therapy. <i>Pain</i> , 2007, 133, 29-38.	4.2	60
8	Pharmacological Chaperoning of Nicotinic Acetylcholine Receptors Reduces the Endoplasmic Reticulum Stress Response. <i>Molecular Pharmacology</i> , 2012, 81, 759-769.	2.3	57
9	$\alpha 7\beta 2$ Nicotinic Acetylcholine Receptors Assemble, Function, and Are Activated Primarily via Their $\alpha 7$ - $\alpha 7$ Interfaces. <i>Molecular Pharmacology</i> , 2012, 81, 175-188.	2.3	56
10	Pharmacological chaperoning of nAChRs: A therapeutic target for Parkinson's disease. <i>Pharmacological Research</i> , 2014, 83, 20-29.	7.1	52
11	Psychiatric Drugs Bind to Classical Targets Within Early Exocytotic Pathways: Therapeutic Effects. <i>Biological Psychiatry</i> , 2012, 72, 907-915.	1.3	51
12	Trafficking of $\alpha 4^*$ Nicotinic Receptors Revealed by Superecliptic Phluorin. <i>Journal of Biological Chemistry</i> , 2011, 286, 31241-31249.	3.4	50
13	Smoking-Relevant Nicotine Concentration Attenuates the Unfolded Protein Response in Dopaminergic Neurons. <i>Journal of Neuroscience</i> , 2016, 36, 65-79.	3.6	44
14	Protein kinase $\epsilon$ contributes to basal and sensitizing responses of TRPV1 to capsaicin in rat dorsal root ganglion neurons. <i>European Journal of Neuroscience</i> , 2008, 28, 1241-1254.	2.6	42
15	Imaging P2X4 receptor subcellular distribution, trafficking, and regulation using P2X4-pHluorin. <i>Journal of General Physiology</i> , 2014, 144, 81-104.	1.9	39
16	Characterizing functional $\alpha 6\beta 2$ nicotinic acetylcholine receptors in vitro: Mutant $\beta 2$ subunits improve membrane expression, and fluorescent proteins reveal responsive cells. <i>Biochemical Pharmacology</i> , 2011, 82, 852-861.	4.4	34
17	Transcriptional regulation by nicotine in dopaminergic neurons. <i>Biochemical Pharmacology</i> , 2013, 86, 1074-1083.	4.4	27
18	An HSV vector system for selection of ligand-gated ion channel modulators. <i>Nature Methods</i> , 2007, 4, 733-739.	19.0	20

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19	Fluorescence Resonance Energy Transfer (FRET) Correlates of Altered Subunit Stoichiometry in Cys-Loop Receptors, Exemplified by Nicotinic $\alpha 4\beta 2$ . International Journal of Molecular Sciences, 2012, 13, 10022-10040.	4.1	20
20	Astrocytic mitochondria in adult mouse brain slices show spontaneous calcium influx events with unique properties. Cell Calcium, 2021, 96, 102383.	2.4	17
21	Adeno-Associated Virus Expression of $\alpha$ -Synuclein as a Tool to Model Parkinson's Disease: Current Understanding and Knowledge Gaps. , 2021, 12, 1120.		11
22	Functional Assessment of Stroke-Induced Regulation of miR-20a-3p and Its Role as a Neuroprotectant. Translational Stroke Research, 2022, 13, 432-448.	4.2	11
23	Cytisine is neuroprotective in female but not male $\alpha$ -hydroxydopamine lesioned parkinsonian mice and acts in combination with $17\beta$ -estradiol to inhibit apoptotic endoplasmic reticulum stress in dopaminergic neurons. Journal of Neurochemistry, 2021, 157, 710-726.	3.9	9
24	GEClquant: Semi-automated Detection and Quantification of Astrocyte Intracellular $Ca^{2+}$ Signals Monitored with GCaMP6f. Springer Series in Computational Neuroscience, 2019, , 455-470.	0.3	7
25	Magnetic Fields and Magnetically Stimulated Gold-Coated Superparamagnetic Iron Oxide Nanoparticles Differentially Modulate L-Type Voltage-Gated Calcium Channel Activity in Midbrain Neurons. ACS Applied Nano Materials, 2022, 5, 205-215.	5.0	7
26	Emerging Roles for Aberrant Astrocytic Calcium Signals in Parkinson's Disease. Frontiers in Physiology, 2021, 12, 812212.	2.8	7
27	Reliable Identification of Living Dopaminergic Neurons in Midbrain Cultures Using RNA Sequencing and TH-promoter-driven eGFP Expression. Journal of Visualized Experiments, 2017, , .	0.3	6
28	Quantifying Spontaneous $Ca^{2+}$ Fluxes and their Downstream Effects in Primary Mouse Midbrain Neurons. Journal of Visualized Experiments, 2020, , .	0.3	5
29	Macrophage Migration Inhibitory Factor Alters Functional Properties of CA1 Hippocampal Neurons in Mouse Brain Slices. International Journal of Molecular Sciences, 2020, 21, 276.	4.1	4
30	Calcium signals in astrocytes of the fly brain promote sleep. Cell Calcium, 2021, 94, 102341.	2.4	1
31	164. HSV-1 Vector-Based Assay To Identify Inhibitors of the Vanilloid Receptor. Molecular Therapy, 2006, 13, S63-S64.	8.2	0
32	1071. Development and Characterization of HSV-1 Vector-Expressed Dominant Negative PKC epsilon for Pain Therapy. Molecular Therapy, 2006, 13, S411.	8.2	0
33	Pharmacological chaperoning of nicotinic receptors begins in the endoplasmic reticulum: Compartments and stoichiometries. Biochemical Pharmacology, 2009, 78, 900.	4.4	0
34	Characterizing Nicotine-Induced $\alpha 4\beta 2$ nAChR Upregulation with Fluorescence Microscopy. Biophysical Journal, 2009, 96, 105a.	0.5	0
35	Cellular Basis Of Nicotine-induced nAChR Upregulation. Biophysical Journal, 2009, 96, 165a.	0.5	0
36	Abstract TP271: Sex Specific Regulation of Astrocytic Mitochondrial Function by Microrna (mir)20a-3p Under Ischemic Conditions. Stroke, 2020, 51, .	2.0	0