Gaiti Hasan

List of Publications by Year
in descending order

90 papers	2,980 citations	201674 27 h-index	189892 50 g-index
99 all docs	99 docs citations	99 times ranked	2522 citing authors

#	Article	IF	Citations
1	Two photon imaging of calcium responses in murine Purkinje neurons. STAR Protocols, 2022, 3, 101105.	1.2	0
2	Store-operated Ca2+ entry regulates neuronal gene expression and function. Current Opinion in Neurobiology, 2022, 73, 102520.	4.2	10
3	Purkinje Neurons with Loss of STIM1 Exhibit Age-Dependent Changes in Gene Expression and Synaptic Components. Journal of Neuroscience, 2021, 41, 3777-3798.	3.6	13
4	IP3-mediated Ca2+ signals regulate larval to pupal transition under nutrient stress through the H3K36 methyltransferase Set2. Development (Cambridge), 2021, 148, .	2.5	1
5	Deficits Associated With Loss of STIM1 in Purkinje Neurons Including Motor Coordination Can Be Rescued by Loss of Septin 7. Frontiers in Cell and Developmental Biology, 2021, 9, 794807.	3.7	6
6	Ral function in muscle is required for flight maintenance in <i>Drosophila</i>. Small GTPases, 2020, 11, 1-6.	1.6	1
7	Surviving nutritional deprivation during development: neuronal intracellular calcium signaling is critical. International Journal of Developmental Biology, 2020, 64, 239-246.	0.6	0
8	SEPT7 regulates Ca2+ entry through Orai channels in human neural progenitor cells and neurons. Cell Calcium, 2020, 90, 102252.	2.4	20
9	Regulation of neuronal physiology by Ca2+ release through the IP3R. Current Opinion in Physiology, 2020, 17, 1-8.	1.8	12
10	Modulation of flight and feeding behaviours requires presynaptic IP3Rs in dopaminergic neurons. ELife, 2020, 9, .	6.0	14
11	SEPT7â€mediated regulation of Ca 2+ entry through Orai channels requires other septin subunits. Cytoskeleton, 2019, 76, 104-114.	2.0	7
12	Measurement of Store-Operated Calcium Entry in Human Neural Cells: From Precursors to Differentiated Neurons. Methods in Molecular Biology, 2019, 2029, 257-271.	0.9	4
13	ER-Ca2+ sensor STIM regulates neuropeptides required for development under nutrient restriction in Drosophila. PLoS ONE, 2019, 14, e0219719.	2.5	9
14	Implications of the <i>Sap47</i> null mutation for synapsin phosphorylation, longevity, climbing, and behavioural plasticity in adult <i>Drosophila</i>. Journal of Experimental Biology, 2019, 222, .	1.7	5
15	Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. Current Biology, 2019, 29, 283-293.e5.	3.9	19
16	IP3 receptors and Ca2+ entry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1092-1100.	4.1	52
17	Title is missing!. , 2019, 14, e0219719.		0
18	Title is missing!. , 2019, 14, e0219719.		0

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19	A Multicomponent Neuronal Response Encodes the Larval Decision to Pupariate upon Amino Acid Starvation. Journal of Neuroscience, 2018, 38, 10202-10219.	3.6	19
20	Store-Operated Ca2+ Entry in Drosophila Primary Neuronal Cultures. Methods in Molecular Biology, 2018, 1843, 125-136.	0.9	9
21	Neuronal Calcium Signaling in Metabolic Regulation and Adaptation to Nutrient Stress. Frontiers in Neural Circuits, 2018, 12, 25.	2.8	12
22	Stable STIM1 Knockdown in Self-Renewing Human Neural Precursors Promotes Premature Neural Differentiation. Frontiers in Molecular Neuroscience, 2018, 11, 178.	2.9	22
23	FMRFa receptor stimulated Ca2+ signals alter the activity of flight modulating central dopaminergic neurons in Drosophila melanogaster. PLoS Genetics, 2018, 14, e1007459.	3.5	20
24	dSTIM- and Ral/Exocyst-Mediated Synaptic Release from Pupal Dopaminergic Neurons Sustains Drosophila Flight. ENeuro, 2018, 5, ENEURO.0455-17.2018.	1.9	9
25	Flight and Climbing Assay for Assessing Motor Functions in Drosophila. Bio-protocol, 2018, 8, e2742.	0.4	24
26	CRISPR-Cas-Induced Mutants Identify a Requirement for dSTIM in Larval Dopaminergic Cells of <i>Drosophila melanogaster</i>. G3: Genes, Genomes, Genetics, 2017, 7, 923-933.	1.8	16
27	A pupal transcriptomic screen identifies Ral as a target of store-operated calcium entry in Drosophila neurons. Scientific Reports, 2017, 7, 42586.	3.3	29
28	IP3R mediated Ca2+ release regulates protein metabolism in<i>Drosophila</i>neuroendocrine cells: implications for development under nutrient stress. Development (Cambridge), 2017, 144, 1484-1489.	2.5	11
29	Control of protein translation by IP₃R-mediated Ca²⁺ release in <i>Drosophila</i> neuroendocrine cells. Fly, 2017, 11, 290-296.	1.7	3
30	Spontaneous Ca2+ Influx in Drosophila Pupal Neurons Is Modulated by IP3-Receptor Function and Influences Maturation of the Flight Circuit. Frontiers in Molecular Neuroscience, 2017, 10, 111.	2.9	13
31	Regulation of Store-Operated Ca2+ Entry by Septins. Frontiers in Cell and Developmental Biology, 2016, 4, 142.	3.7	20
32	Mutant IP3 receptors attenuate store-operated Ca2+ entry by destabilizing STIM-Orai interactions in <i>Drosophila</i> neurons. Journal of Cell Science, 2016, 129, 3903-3910.	2.0	32
33	Store-independent modulation of Ca2+ entry through Orai by Septin 7. Nature Communications, 2016, 7, 11751.	12.8	44
34	Drosophila larval to pupal switch under nutrient stress requires IP3R/Ca2+ signalling in glutamatergic interneurons. ELife, 2016, 5, .	6.0	28
35	Maturation of a central brain flight circuit in Drosophila requires Fz2/Ca2+ signaling. ELife, 2015, 4, .	6.0	36
36	Store-Operated Calcium Entry through Orai Is Required for Transcriptional Maturation of the Flight Circuit in<i>Drosophila</i>. Journal of Neuroscience, 2015, 35, 13784-13799.	3.6	69

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37	Neural Control of Wing Coordination in Flies. Current Biology, 2015, 25, 80-86.	3.9	43
38	Spinocerebellar ataxia 1: case and cohort-based studies in India. Current Science, 2015, 109, 889.	0.8	0
39	Spinocerebellar ataxia 1: case and cohort-based studies in India. Current Science, 2015, 109, 889.	0.8	0
40	Genetic characterization of Spinocerebellar ataxia 1 in a South Indian cohort. BMC Medical Genetics, 2014, 15, 114.	2.1	6
41	Serotonergic neurons of the Drosophila air-puff-stimulated flight circuit. Journal of Biosciences, 2014, 39, 575-583.	1.1	5
42	Intracellular signaling in neurons: unraveling specificity, compensatory mechanisms and essential gene function. Current Opinion in Neurobiology, 2013, 23, 62-67.	4.2	0
43	Loss of IP3 receptor function in neuropeptide secreting neurons leads to obesity in adult Drosophila. BMC Neuroscience, 2013, 14, 157.	1.9	21
44	A Genetic RNAi Screen for IP3/Ca2+ Coupled GPCRs in Drosophila Identifies the PdfR as a Regulator of Insect Flight. PLoS Genetics, 2013, 9, e1003849.	3.5	52
45	Altered lipid homeostasis in<i>Drosophila</i>InsP3 receptor mutants leads to obesity and hyperphagia. DMM Disease Models and Mechanisms, 2013, 6, 734-44.	2.4	60
46	The Early Years of Drosophila Chemosensory Genetics in Mumbai's Tata Institute of Fundamental Research. Journal of Neurogenetics, 2012, 26, 264-266.	1.4	2
47	The genetics of calcium signaling in Drosophila melanogaster. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1269-1282.	2.4	30
48	Functional Complementation of<i>Drosophila itpr</i>Mutants by Rat<i>Itpr1</i>. Journal of Neurogenetics, 2012, 26, 328-337.	1.4	8
49	Mutants in Drosophila TRPC Channels Reduce Olfactory Sensitivity to Carbon Dioxide. PLoS ONE, 2012, 7, e49848.	2.5	29
50	<i>Drosophila</i> InsP₃R mutants and their effects on cellular and systemic physiology. Environmental Sciences Europe, 2012, 1, 70-77.	5.5	2
51	IP3R, store-operated Ca2+ entry and neuronal Ca2+ homoeostasis in <i>Drosophila</i>. Biochemical Society Transactions, 2012, 40, 279-281.	3.4	13
52	Synaptic Activity in Serotonergic Neurons Is Required for Air-Puff Stimulated Flight in Drosophila melanogaster. PLoS ONE, 2012, 7, e46405.	2.5	15
53	Patterns of Gene Expression in Drosophila InsP3 Receptor Mutant Larvae Reveal a Role for InsP3 Signaling in Carbohydrate and Energy Metabolism. PLoS ONE, 2011, 6, e24105.	2.5	5
54	The enigma of store-operated Ca2+-entry in neurons: answers from the Drosophila flight circuit. Frontiers in Neural Circuits, 2010, 4, 10.	2.8	8

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55	Mutants in Phospholipid Signaling Attenuate the Behavioral Response of Adult Drosophila to Trehalose. Chemical Senses, 2010, 35, 663-673.	2.0	24
56	Inositol 1,4,5-Trisphosphate Receptor and dSTIM Function in<i>Drosophila</i>Insulin-Producing Neurons Regulates Systemic Intracellular Calcium Homeostasis and Flight. Journal of Neuroscience, 2010, 30, 1301-1313.	3.6	48
57	Inositol 1,4,5- Trisphosphate Receptor Function in Drosophila Insulin Producing Cells. PLoS ONE, 2009, 4, e6652.	2.5	22
58	<i>Drosophila</i>Mutants in Phospholipid Signaling Have Reduced Olfactory Responses as Adults and Larvae. Journal of Neurogenetics, 2009, 23, 303-312.	1.4	15
59	Intracellular Ca ²⁺ signaling and store-operated Ca ²⁺ entry are required in <i>Drosophila</i> neurons for flight. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10326-10331.	7.1	114
60	Reduced Odor Responses from Antennal Neurons of G_qÎ±, Phospholipase CÎ², and<i>rdgA</i>Mutants in<i>Drosophila</i>Support a Role for a Phospholipid Intermediate in Insect Olfactory Transduction. Journal of Neuroscience, 2008, 28, 4745-4755.	3.6	104
61	Homeostasis of glutamate neurotransmission is altered in Drosophila Inositol 1,4,5-trisphosphate receptor mutants. Invertebrate Neuroscience, 2007, 7, 137-147.	1.8	7
62	Ectopic expression of a Drosophila InsP3R channel mutant has dominant-negative effects in vivo. Cell Calcium, 2006, 39, 187-196.	2.4	7
63	Compensation of Inositol 1,4,5-Trisphosphate Receptor Function by Altering Sarco-Endoplasmic Reticulum Calcium ATPase Activity in the Drosophila Flight Circuit. Journal of Neuroscience, 2006, 26, 8278-8288.	3.6	42
64	The InsP3 receptor: its role in neuronal physiology and neurodegeneration. BioEssays, 2005, 27, 1035-1047.	2.5	32
65	Loss of Flight and Associated Neuronal Rhythmicity in Inositol 1,4,5-Trisphosphate Receptor Mutants of Drosophila. Journal of Neuroscience, 2004, 24, 7869-7878.	3.6	74
66	Functional Properties of the Drosophila melanogaster Inositol 1,4,5-Trisphosphate Receptor Mutants. Biophysical Journal, 2004, 86, 3634-3646.	0.5	43
67	Functional properties of a pore mutant in theDrosophila melanogasterinositol 1,4,5-trisphosphate receptor. FEBS Letters, 2004, 575, 95-98.	2.8	9
68	Genetic Dissection of itpr Gene Function Reveals a Vital Requirement in Aminergic Cells of Drosophila Larvae. Genetics, 2004, 166, 225-236.	2.9	52
69	norpAanditprmutants reveal roles for phospholipase C and inositol (1,4,5)- trisphosphate receptor inDrosophila melanogasterrenal function. Journal of Experimental Biology, 2003, 206, 901-911.	1.7	47
70	Altered Levels of Gq Activity Modulate Axonal Pathfinding inDrosophila. Journal of Neuroscience, 2002, 22, 4499-4508.	3.6	36
71	Interactions Between the Inositol 1,4,5-Trisphosphate and Cyclic AMP Signaling Pathways Regulate Larval Molting in Drosophila. Genetics, 2001, 158, 309-318.	2.9	38
72	The inositol 1,4,5-trisphosphate receptor is required for maintenance of olfactory adaptation inDrosophila antennae. , 2000, 43, 282-288.		41

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73	Genetic analysis of olfC demonstrates a role for the position-specific integrins in the olfactory system of Drosophila melanogaster. Molecular Genetics and Genomics, 2000, 263, 498-504.	2.4	10
74	Normal Phototransduction in Drosophila Photoreceptors Lacking an InsP3 Receptor Gene. Molecular and Cellular Neurosciences, 2000, 15, 429-445.	2.2	125
75	Expression patterns of two putative odorant-binding proteins in the olfactory organs of Drosophila melanogaster have different implications for their functions. Cell and Tissue Research, 2000, 300, 181-192.	2.9	24
76	Preferential Expression of Biotransformation Enzymes in the Olfactory Organs of Drosophila melanogaster, the Antennae. Journal of Biological Chemistry, 1999, 274, 10309-10315.	3.4	117
77	Sequencing and exon mapping of the inositol 1,4,5-trisphosphate receptor cDNA from Drosophila embryos suggests the presence of differentially regulated forms of RNA and protein. Gene, 1999, 233, 271-276.	2.2	25
78	Molecular coevolution within a Drosophila clock gene. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4475-4480.	7.1	78
79	Development of a functional assay for Ca2+ release activity of IP3R and expression of an IP3R gene fragment in the baculovirus-insect cell system. Gene, 1997, 190, 151-156.	2.2	4
80	The<i>Swiss Cheese</i>Mutant Causes Glial Hyperwrapping and Brain Degeneration in<i>Drosophila</i>. Journal of Neuroscience, 1997, 17, 7425-7432.	3.6	245
81	Disruption of the IP3 receptor gene of Drosophila affects larval metamorphosis and ecdysone release. Current Biology, 1997, 7, 500-509.	3.9	106
82	The Inositol 1,4,5-Triphosphate Receptor Expression in Drosophila Suggests a Role for IP3 Signalling in Muscle Development and Adult Chemosensory Functions. Developmental Biology, 1995, 171, 564-577.	2.0	27
83	Members of a family of drosophila putative odorant-binding proteins are expressed in different subsets of olfactory hairs. Neuron, 1994, 12, 35-49.	8.1	351
84	Drosophila â€œenhancer-trapâ€•transposants: Gene expression in chemosensory and motor pathways and identification of mutants affected in smell and taste ability. Journal of Genetics, 1990, 69, 151-168.	0.7	26
85	Molecular cloning of an olfactory gene from Drosophila melanogaster.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 9037-9041.	7.1	18
86	A chromosomal walk in the region of polytene bands 7C-D of theDrosophila X chromosome. Journal of Genetics, 1989, 68, 139-146.	0.7	2
87	Complete nucleotide sequence of an unusual mobile element from trypanosoma brucei. Cell, 1984, 37, 333-341.	28.9	95
88	Ribosomal RNA genes of Trypanosoma brucei: Mapping the regions specifying the six small ribosomal RNAs. Gene, 1984, 27, 75-86.	2.2	50
89	Ribosomal RNA genes ofTrypanosoma brucei.Cloning of a rRNA gene containing a mobile element. Nucleic Acids Research, 1982, 10, 6747-6761.	14.5	28
90	Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. SSRN Electronic Journal, 0, , .	0.4	0