# Gaiti Hasan

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Normal Phototransduction in Drosophila Photoreceptors Lacking an InsP3 Receptor Gene. Molecular and Cellular Neurosciences, 2000, 15, 429-445. | 2.2 | 125 |
| 4 | 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 |
| 5 | Intracellular Ca <sup>2+</sup> signaling and store-operated Ca <sup>2+</sup> 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 |
| 6 | Disruption of the IP3 receptor gene of Drosophila affects larval metamorphosis and ecdysone release. Current Biology, 1997, 7, 500-509. | 3.9 | 106 |
| 7 | Reduced Odor Responses from Antennal Neurons of G<sub>q</sub>Î±, 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 |
| 8 | Complete nucleotide sequence of an unusual mobile element from trypanosoma brucei. Cell, 1984, 37, 333-341. | 28.9 | 95 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | Genetic Dissection of itpr Gene Function Reveals a Vital Requirement in Aminergic Cells of Drosophila Larvae. Genetics, 2004, 166, 225-236. | 2.9 | 52 |
| 14 | 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 |
| 15 | IP3 receptors and Ca2+ entry. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1092-1100. | 4.1 | 52 |
| 16 | Ribosomal RNA genes of Trypanosoma brucei: Mapping the regions specifying the six small ribosomal RNAs. Gene, 1984, 27, 75-86. | 2.2 | 50 |
| 17 | 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 |
| 18 | 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 |

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|---|---|---|---|
| 19 | Store-independent modulation of Ca2+ entry through Orai by Septin 7. Nature Communications, 2016, 7, 11751. | 12.8 | 44 |
| 20 | Functional Properties of the Drosophila melanogaster Inositol 1,4,5-Trisphosphate Receptor Mutants. Biophysical Journal, 2004, 86, 3634-3646. | 0.5 | 43 |
| 21 | Neural Control of Wing Coordination in Flies. Current Biology, 2015, 25, 80-86. | 3.9 | 43 |
| 22 | 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 |
| 23 | The inositol 1,4,5-trisphosphate receptor is required for maintenance of olfactory adaptation inDrosophila antennae. , 2000, 43, 282-288. | | 41 |
| 24 | 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 |
| 25 | Altered Levels of Gq Activity Modulate Axonal Pathfinding inDrosophila. Journal of Neuroscience, 2002, 22, 4499-4508. | 3.6 | 36 |
| 26 | Maturation of a central brain flight circuit in Drosophila requires Fz2/Ca2+ signaling. ELife, 2015, 4, . | 6.0 | 36 |
| 27 | The InsP3 receptor: its role in neuronal physiology and neurodegeneration. BioEssays, 2005, 27, 1035-1047. | 2.5 | 32 |
| 28 | 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 |
| 29 | The genetics of calcium signaling in Drosophila melanogaster. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 1269-1282. | 2.4 | 30 |
| 30 | Mutants in Drosophila TRPC Channels Reduce Olfactory Sensitivity to Carbon Dioxide. PLoS ONE, 2012, 7, e49848. | 2.5 | 29 |
| 31 | 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 |
| 32 | Ribosomal RNA genes ofTrypanosoma brucei.Cloning of a rRNA gene containing a mobile element. Nucleic Acids Research, 1982, 10, 6747-6761. | 14.5 | 28 |
| 33 | Drosophila larval to pupal switch under nutrient stress requires IP3R/Ca2+ signalling in glutamatergic interneurons. ELife, 2016, 5, . | 6.0 | 28 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|---|---|---|---|
| 37 | Mutants in Phospholipid Signaling Attenuate the Behavioral Response of Adult Drosophila to Trehalose. Chemical Senses, 2010, 35, 663-673. | 2.0 | 24 |
| 38 | Flight and Climbing Assay for Assessing Motor Functions in Drosophila. Bio-protocol, 2018, 8, e2742. | 0.4 | 24 |
| 39 | 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 |
| 40 | Inositol 1,4,5- Trisphosphate Receptor Function in Drosophila Insulin Producing Cells. PLoS ONE, 2009, 4, e6652. | 2.5 | 22 |
| 41 | Stable STIM1 Knockdown in Self-Renewing Human Neural Precursors Promotes Premature Neural Differentiation. Frontiers in Molecular Neuroscience, 2018, 11, 178. | 2.9 | 22 |
| 42 | Loss of IP3 receptor function in neuropeptide secreting neurons leads to obesity in adult Drosophila. BMC Neuroscience, 2013, 14, 157. | 1.9 | 21 |
| 43 | Regulation of Store-Operated Ca2+ Entry by Septins. Frontiers in Cell and Developmental Biology, 2016, 4, 142. | 3.7 | 20 |
| 44 | 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 |
| 45 | SEPT7 regulates Ca2+ entry through Orai channels in human neural progenitor cells and neurons. Cell Calcium, 2020, 90, 102252. | 2.4 | 20 |
| 46 | A Multicomponent Neuronal Response Encodes the Larval Decision to Pupariate upon Amino Acid Starvation. Journal of Neuroscience, 2018, 38, 10202-10219. | 3.6 | 19 |
| 47 | Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. Current Biology, 2019, 29, 283-293.e5. | 3.9 | 19 |
| 48 | 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 |
| 49 | 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 |
| 50 | <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 |
| 51 | Synaptic Activity in Serotonergic Neurons Is Required for Air-Puff Stimulated Flight in Drosophila melanogaster. PLoS ONE, 2012, 7, e46405. | 2.5 | 15 |
| 52 | Modulation of flight and feeding behaviours requires presynaptic IP3Rs in dopaminergic neurons. ELife, 2020, 9, . | 6.0 | 14 |
| 53 | IP3R, store-operated Ca2+ entry and neuronal Ca2+ homoeostasis in <i>Drosophila</i>. Biochemical Society Transactions, 2012, 40, 279-281. | 3.4 | 13 |
| 54 | 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 |

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|---|---|---|---|
| 55 | 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 |
| 56 | Neuronal Calcium Signaling in Metabolic Regulation and Adaptation to Nutrient Stress. Frontiers in Neural Circuits, 2018, 12, 25. | 2.8 | 12 |
| 57 | Regulation of neuronal physiology by Ca2+ release through the IP3R. Current Opinion in Physiology, 2020, 17, 1-8. | 1.8 | 12 |
| 58 | 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 |
| 59 | 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 |
| 60 | Store-operated Ca2+ entry regulates neuronal gene expression and function. Current Opinion in Neurobiology, 2022, 73, 102520. | 4.2 | 10 |
| 61 | Functional properties of a pore mutant in theDrosophila melanogasterinositol 1,4,5-trisphosphate receptor. FEBS Letters, 2004, 575, 95-98. | 2.8 | 9 |
| 62 | Store-Operated Ca2+ Entry in Drosophila Primary Neuronal Cultures. Methods in Molecular Biology, 2018, 1843, 125-136. | 0.9 | 9 |
| 63 | ER-Ca2+ sensor STIM regulates neuropeptides required for development under nutrient restriction in Drosophila. PLoS ONE, 2019, 14, e0219719. | 2.5 | 9 |
| 64 | dSTIM- and Ral/Exocyst-Mediated Synaptic Release from Pupal Dopaminergic Neurons Sustains Drosophila Flight. ENeuro, 2018, 5, ENEURO.0455-17.2018. | 1.9 | 9 |
| 65 | 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 |
| 66 | Functional Complementation of<i>Drosophila itpr</i>Mutants by Rat<i>Itpr1</i>. Journal of Neurogenetics, 2012, 26, 328-337. | 1.4 | 8 |
| 67 | Ectopic expression of a Drosophila InsP3R channel mutant has dominant-negative effects in vivo. Cell Calcium, 2006, 39, 187-196. | 2.4 | 7 |
| 68 | Homeostasis of glutamate neurotransmission is altered in Drosophila Inositol 1,4,5-trisphosphate receptor mutants. Invertebrate Neuroscience, 2007, 7, 137-147. | 1.8 | 7 |
| 69 | SEPT7â€mediated regulation of Ca 2+ entry through Orai channels requires other septin subunits. Cytoskeleton, 2019, 76, 104-114. | 2.0 | 7 |
| 70 | Genetic characterization of Spinocerebellar ataxia 1 in a South Indian cohort. BMC Medical Genetics, 2014, 15, 114. | 2.1 | 6 |
| 71 | 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 |
| 72 | 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 |

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|---|---|---|---|
| 73 | Serotonergic neurons of the Drosophila air-puff-stimulated flight circuit. Journal of Biosciences, 2014, 39, 575-583. | 1.1 | 5 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | Control of protein translation by IP<sub>3</sub>R-mediated Ca<sup>2+</sup> release in <i>Drosophila</i> neuroendocrine cells. Fly, 2017, 11, 290-296. | 1.7 | 3 |
| 78 | 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 |
| 79 | 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 |
| 80 | <i>Drosophila</i> InsP<sub>3</sub>R mutants and their effects on cellular and systemic physiology. Environmental Sciences Europe, 2012, 1, 70-77. | 5.5 | 2 |
| 81 | Ral function in muscle is required for flight maintenance in <i>Drosophila</i>. Small GTPases, 2020, 11, 1-6. | 1.6 | 1 |
| 82 | IP3-mediated Ca2+ signals regulate larval to pupal transition under nutrient stress through the H3K36 methyltransferase Set2. Development (Cambridge), 2021, 148, . | 2.5 | 1 |
| 83 | Intracellular signaling in neurons: unraveling specificity, compensatory mechanisms and essential gene function. Current Opinion in Neurobiology, 2013, 23, 62-67. | 4.2 | 0 |
| 84 | Surviving nutritional deprivation during development: neuronal intracellular calcium signaling is critical. International Journal of Developmental Biology, 2020, 64, 239-246. | 0.6 | 0 |
| 85 | Spinocerebellar ataxia 1: case and cohort-based studies in India. Current Science, 2015, 109, 889. | 0.8 | 0 |
| 86 | Spinocerebellar ataxia 1: case and cohort-based studies in India. Current Science, 2015, 109, 889. | 0.8 | 0 |
| 87 | Extended Flight Bouts Require Disinhibition from GABAergic Mushroom Body Neurons. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 88 | Two photon imaging of calcium responses in murine Purkinje neurons. STAR Protocols, 2022, 3, 101105. | 1.2 | 0 |
| 89 | Title is missing!. , 2019, 14, e0219719. | | 0 |
| 90 | Title is missing!. , 2019, 14, e0219719. | | 0 |