# Bassem A Hassan

List of Publications by Year
in descending order



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|---|---|---|---|
| 103 papers | 8,168 citations | 81900 39 h-index | 51608 86 g-index |
| 130 all docs | 130 docs citations | 130 times ranked | 10713 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Math1: An Essential Gene for the Generation of Inner Ear Hair Cells. Science, 1999, 284, 1837-1841. | 12.6 | 1,042 |
| 2 | Gene prioritization through genomic data fusion. Nature Biotechnology, 2006, 24, 537-544. | 17.5 | 787 |
| 3 | Discovery of functional elements in 12 Drosophila genomes using evolutionary signatures. Nature, 2007, 450, 219-232. | 27.8 | 573 |
| 4 | Exome sequencing identifies mutation in CNOT3 and ribosomal genes RPL5 and RPL10 in T-cell acute lymphoblastic leukemia. Nature Genetics, 2013, 45, 186-190. | 21.4 | 365 |
| 5 | Decreased expression of the GABAA receptor in fragile X syndrome. Brain Research, 2006, 1121, 238-245. | 2.2 | 297 |
| 6 | Proprioceptor Pathway Development Is Dependent on MATH1. Neuron, 2001, 30, 411-422. | 8.1 | 280 |
| 7 | Genetically encoded dendritic marker sheds light on neuronal connectivity inDrosophila. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20553-20558. | 7.1 | 252 |
| 8 | Epidermal progenitors give rise to Merkel cells during embryonic development and adult homeostasis. Journal of Cell Biology, 2009, 187, 91-100. | 5.2 | 240 |
| 9 | Drosophila Fragile X Protein, DFXR, Regulates Neuronal Morphology and Function in the Brain. Neuron, 2002, 34, 961-972. | 8.1 | 215 |
| 10 | Amyloid precursor protein promotes post-developmental neurite arborization in the Drosophila brain. EMBO Journal, 2005, 24, 2944-2955. | 7.8 | 193 |
| 11 | A role for Drosophila SMC4 in the resolution of sister chromatids in mitosis. Current Biology, 2001, 11, 295-307. | 3.9 | 176 |
| 12 | The Fungal Aroma Gene ATF1 Promotes Dispersal of Yeast Cells through Insect Vectors. Cell Reports, 2014, 9, 425-432. | 6.4 | 163 |
| 13 | atonal Regulates Neurite Arborization but Does Not Act as a Proneural Gene in the Drosophila Brain. Neuron, 2000, 25, 549-561. | 8.1 | 156 |
| 14 | Expression of the GABAergic system in animal models for fragile X syndrome and fragile X associated tremor/ataxia syndrome (FXTAS). Brain Research, 2009, 1253, 176-183. | 2.2 | 153 |
| 15 | The Drosophila Fragile X Mental Retardation Protein Controls Actin Dynamics by Directly Regulating Profilin in the Brain. Current Biology, 2005, 15, 1156-1163. | 3.9 | 133 |
| 16 | Amyloid precursor protein and neural development. Development (Cambridge), 2014, 141, 2543-2548. | 2.5 | 127 |
| 17 | Intestinal stem cells lacking the Math1 tumour suppressor are refractory to Notch inhibitors. Nature Communications, 2010, 1, 18. | 12.8 | 119 |
| 18 | Doing the MATH: is the mouse a good model for fly development?. Genes and Development, 2000, 14, 1852-1865. | 5.9 | 114 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Axonal Injury and Regeneration in the Adult Brain of Drosophila. Journal of Neuroscience, 2008, 28, 6010-6021. | 3.6 | 109 |
| 20 | Drosophila atonal Fully Rescues the Phenotype of Math1 Null Mice. Current Biology, 2002, 12, 1611-1616. | 3.9 | 104 |
| 21 | Atonal homolog 1 Is a Tumor Suppressor Gene. PLoS Biology, 2009, 7, e1000039. | 5.6 | 103 |
| 22 | A neurodevelopmental origin of behavioral individuality in the Drosophila visual system. Science, 2020, 367, 1112-1119. | 12.6 | 97 |
| 23 | Beyond Molecular Codes: Simple Rules to Wire Complex Brains. Cell, 2015, 163, 285-291. | 28.9 | 95 |
| 24 | Prospero is a panneural transcription factor that modulates homeodomain proteinâ€‰activity. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 10991-10996. | 7.1 | 91 |
| 25 | Recombineering-mediated tagging of Drosophila genomic constructs for in vivo localization and acute protein inactivation. Nucleic Acids Research, 2008, 36, e114-e114. | 14.5 | 91 |
| 26 | Robust Target Gene Discovery through Transcriptome Perturbations and Genome-Wide Enhancer Predictions in Drosophila Uncovers a Regulatory Basis for Sensory Specification. PLoS Biology, 2010, 8, e1000435. | 5.6 | 88 |
| 27 | Gustatory-mediated avoidance of bacterial lipopolysaccharides via TRPA1 activation in Drosophila. ELife, 2016, 5, . | 6.0 | 88 |
| 28 | Oligodendrocyte precursor survival and differentiation requires chromatin remodeling by Chd7 and Chd8. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8246-E8255. | 7.1 | 81 |
| 29 | Beyond proneural: emerging functions and regulations of proneural proteins. Current Opinion in Neurobiology, 2017, 42, 93-101. | 4.2 | 80 |
| 30 | Filopodial dynamics and growth cone stabilization in Drosophila visual circuit development. ELife, 2015, 4, . | 6.0 | 78 |
| 31 | lazaro Encodes a Lipid Phosphate Phosphohydrolase that Regulates Phosphatidylinositol Turnover during Drosophila Phototransduction. Neuron, 2006, 49, 533-546. | 8.1 | 73 |
| 32 | The Drosophila Homologue of the Amyloid Precursor Protein Is a Conserved Modulator of Wnt PCP Signaling. PLoS Biology, 2013, 11, e1001562. | 5.6 | 71 |
| 33 | skittles, a Drosophila Phosphatidylinositol 4-Phosphate 5-Kinase, Is Required for Cell Viability, Germline Development and Bristle Morphology, But Not for Neurotransmitter Release. Genetics, 1998, 150, 1527-1537. | 2.9 | 70 |
| 34 | Evolution of neural precursor selection: functional divergence of proneural proteins. Development (Cambridge), 2004, 131, 1679-1689. | 2.5 | 59 |
| 35 | A Signaling Network for Patterning of Neuronal Connectivity in the Drosophila Brain. PLoS Biology, 2006, 4, e348. | 5.6 | 58 |
| 36 | Post-translational Control of the Temporal Dynamics of Transcription Factor Activity Regulates Neurogenesis. Cell, 2016, 164, 460-475. | 28.9 | 58 |

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|---|---|---|---|
| 37 | The Evolution of Variability and Robustness in Neural Development. Trends in Neurosciences, 2018, 41, 577-586. | 8.6 | 54 |
| 38 | Conditional Mutagenesis in Drosophila. Science, 2009, 324, 54-54. | 12.6 | 51 |
| 39 | The Atonal Proneural Transcription Factor Links Differentiation and Tumor Formation in Drosophila. PLoS Biology, 2009, 7, e1000040. | 5.6 | 47 |
| 40 | From skin to nerve: flies, vertebrates and the first helix. Cellular and Molecular Life Sciences, 2005, 62, 2036-2049. | 5.4 | 46 |
| 41 | APLP2 regulates neuronal stem cell differentiation during cortical development. Journal of Cell Science, 2013, 126, 1268-1277. | 2.0 | 44 |
| 42 | Beyond pathology: APP, brain development and Alzheimer's disease. Current Opinion in Neurobiology, 2014, 27, 61-67. | 4.2 | 41 |
| 43 | A novel fragile X syndrome mutation reveals a conserved role for the carboxyâ€terminus in <scp>FMRP</scp> localization and function. EMBO Molecular Medicine, 2015, 7, 423-437. | 6.9 | 41 |
| 44 | DrosophilaAmyloid Precursor Protein-Like Is Required for Long-Term Memory. Journal of Neuroscience, 2011, 31, 1032-1037. | 3.6 | 38 |
| 45 | Reduced Lateral Inhibition Impairs Olfactory Computations and Behaviors in a Drosophila Model of Fragile X Syndrome. Current Biology, 2017, 27, 1111-1123. | 3.9 | 37 |
| 46 | The Basic Helixâ^'Loopâ^'Helix Region of Human Neurogenin 1 Is a Monomeric Natively Unfolded Protein Which Forms a â€œFuzzyâ€•Complex upon DNA Binding. Biochemistry, 2010, 49, 1577-1589. | 2.5 | 36 |
| 47 | Mutual inhibition among postmitotic neurons regulates robustness of brain wiring in Drosophila. ELife, 2013, 2, e00337. | 6.0 | 36 |
| 48 | Regulation of branching dynamics by axon-intrinsic asymmetries in Tyrosine Kinase Receptor signaling. ELife, 2014, 3, e01699. | 6.0 | 36 |
| 49 | A Temporal Transcriptional Switch Governs Stem Cell Division, Neuronal Numbers, and Maintenance of Differentiation. Developmental Cell, 2018, 45, 53-66.e5. | 7.0 | 35 |
| 50 | Altering the Temporal Regulation of One Transcription Factor Drives Evolutionary Trade-Offs between Head Sensory Organs. Developmental Cell, 2019, 50, 780-792.e7. | 7.0 | 34 |
| 51 | Fine-Tuning Enhancer Models to Predict Transcriptional Targets across Multiple Genomes. PLoS ONE, 2007, 2, e1115. | 2.5 | 34 |
| 52 | Autophagy-dependent filopodial kinetics restrict synaptic partner choice during Drosophila brain wiring. Nature Communications, 2020, 11, 1325. | 12.8 | 31 |
| 53 | p27Kip1 Modulates Axonal Transport by Regulating Î±-Tubulin Acetyltransferase 1 Stability. Cell Reports, 2018, 23, 2429-2442. | 6.4 | 30 |
| 54 | Integrating Computational Biology and Forward Genetics in Drosophila. PLoS Genetics, 2009, 5, e1000351. | 3.5 | 27 |

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|---|---|---|---|
| 55 | Brain connectivity inversely scales with developmental temperature in Drosophila. Cell Reports, 2021, 37, 110145. | 6.4 | 27 |
| 56 | Regulation of Drosophila Brain Wiring by Neuropil Interactions via a Slit-Robo-RPTP Signaling Complex. Developmental Cell, 2016, 39, 267-278. | 7.0 | 26 |
| 57 | Mutational Analysis Establishes a Critical Role for the N Terminus of Fragile X Mental Retardation Protein FMRP. Journal of Neuroscience, 2008, 28, 3221-3226. | 3.6 | 25 |
| 58 | Neurogenins in brain development and disease: An overview. Archives of Biochemistry and Biophysics, 2014, 558, 10-13. | 3.0 | 25 |
| 59 | Evolutionary changes in transcription factor coding sequence quantitatively alter sensory organ development and function. ELife, 2017, 6, . | 6.0 | 25 |
| 60 | Unraveling the protective effect of a Drosophila phosphatidylethanolamine-binding protein upon bacterial infection by means of proteomics. Developmental and Comparative Immunology, 2009, 33, 1186-1195. | 2.3 | 24 |
| 61 | Ubiquitin Ligase HUWE1 Regulates Axon Branching through the Wnt/Î²-Catenin Pathway in a Drosophila Model for Intellectual Disability. PLoS ONE, 2013, 8, e81791. | 2.5 | 23 |
| 62 | A Fat-Facets-Dscam1-JNK Pathway Enhances Axonal Growth in Development and after Injury. Frontiers in Cellular Neuroscience, 2017, 11, 416. | 3.7 | 23 |
| 63 | Regulatory interactions during early neurogenesis inDrosophila. Genesis, 1996, 18, 18-27. | 2.1 | 22 |
| 64 | A novel method for tissue-specific RNAi rescue in Drosophila. Nucleic Acids Research, 2009, 37, e93-e93. | 14.5 | 22 |
| 65 | The amyloid precursor protein is a conserved Wnt receptor. ELife, 2021, 10, . | 6.0 | 22 |
| 66 | Genetics in the Age of Systems Biology. Cell, 2005, 123, 1173-1174. | 28.9 | 21 |
| 67 | A fruitfly's guide to keeping the brain wired. EMBO Reports, 2007, 8, 46-50. | 4.5 | 21 |
| 68 | Proper connectivity of Drosophila motion detector neurons requires Atonal function in progenitor cells. Neural Development, 2014, 9, 4. | 2.4 | 21 |
| 69 | A simple computer vision pipeline reveals the effects of isolation on social interaction dynamics in Drosophila. PLoS Computational Biology, 2018, 14, e1006410. | 3.2 | 20 |
| 70 | Out with the Brain: Drosophila Whole-Brain Explant Culture. Neuromethods, 2012, , 261-268. | 0.3 | 19 |
| 71 | Transcriptional Control of Cell Fate Specification. Current Topics in Developmental Biology, 2012, 98, 259-276. | 2.2 | 18 |
| 72 | Generation of excitatory and inhibitory neurons from common progenitors via Notch signaling in the cerebellum. Cell Reports, 2021, 35, 109208. | 6.4 | 18 |

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|---|---|---|---|
| 73 | Hindsight regulates photoreceptor axon targeting through transcriptional control of jitterbug/Filamin and multiple genes involved in axon guidance in <scp>D</scp>rosophila. Developmental Neurobiology, 2015, 75, 1018-1032. | 3.0 | 17 |
| 74 | TheDrosophilaNeurogenin, Tap, functionally interacts with the Wnt-PCP pathway to regulate neuronal extension and guidance. Development (Cambridge), 2016, 143, 2760-6. | 2.5 | 16 |
| 75 | Xenopus BTBD6 and its Drosophila homologue lute are required for neuronal development. Developmental Dynamics, 2008, 237, 3352-3360. | 1.8 | 15 |
| 76 | The CCR4-NOT complex is a tumor suppressor in Drosophila melanogaster eye cancer models. Journal of Hematology and Oncology, 2018, 11, 108. | 17.0 | 15 |
| 77 | Daughterless is required for the expression of cell cycle genes in peripheral nervous system precursors ofDrosophila embryos. , 1997, 21, 117-122. | | 14 |
| 78 | Slit neuronal secretion coordinates optic lobe morphogenesis in Drosophila. Developmental Biology, 2020, 458, 32-42. | 2.0 | 10 |
| 79 | The Drosophila amyloid precursor protein homologue mediates neuronal survival and neuroglial interactions. PLoS Biology, 2020, 18, e3000703. | 5.6 | 10 |
| 80 | Drosophila syndecan regulates tracheal cell migration by stabilizing Robo levels. EMBO Reports, 2011, 12, 1039-1046. | 4.5 | 9 |
| 81 | The Little Fly that Could: Wizardry and Artistry of Drosophila Genomics. Genes, 2014, 5, 385-414. | 2.4 | 9 |
| 82 | Genetic approaches in Drosophila for the study neurodevelopmental disorders. Neuropharmacology, 2013, 68, 150-156. | 4.1 | 7 |
| 83 | Regulation of Adult CNS Axonal Regeneration by the Post-transcriptional Regulator Cpeb1. Frontiers in Molecular Neuroscience, 2017, 10, 445. | 2.9 | 7 |
| 84 | Notch1 switches progenitor competence in inducing medulloblastoma. Science Advances, 2021, 7, . | 10.3 | 6 |
| 85 | Receptor Tyrosine Kinases and Phosphatases in Neuronal Wiring. Current Topics in Developmental Biology, 2017, 123, 399-432. | 2.2 | 4 |
| 86 | A neuroscientific approach to increase gender equality. Nature Human Behaviour, 2019, 3, 1238-1239. | 12.0 | 4 |
| 87 | Building Bridges through Science. Neuron, 2017, 96, 730-735. | 8.1 | 2 |
| 88 | Genetically Encoded Markers for Drosophila Neuroanatomy. Neuromethods, 2012, , 49-59. | 0.3 | 2 |
| 89 | Whole-genome prediction ofcis-regulatory modules and target genes yields insight into gene regulatory networks underlying sensory differentiation. Fly, 2011, 5, 221-223. | 1.7 | 1 |
| 90 | Hamlet Notches fate. Nature Neuroscience, 2012, 15, 174-176. | 14.8 | 1 |

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|---|---|---|---|
| 91 | Automated Social Behaviour Recognition at Low Resolution. , 2014, , . | | 1 |
| 92 | Slit/Robo Signaling Regulates Multiple Stages of the Development of the Drosophila Motion Detection System. Frontiers in Cell and Developmental Biology, 2021, 9, 612645. | 3.7 | 1 |
| 93 | The I in Scientist. Cell, 2016, 166, 790-793. | 28.9 | 0 |
| 94 | Induction of granule and Purkinje cells from primary cultured mouse cerebellar progenitors. STAR Protocols, 2021, 2, 100760. | 1.2 | 0 |
| 95 | Epidermal progenitors give rise to Merkel cells during embryonic development and adult homeostasis. Journal of Experimental Medicine, 2009, 206, i26-i26. | 8.5 | 0 |
| 96 | APLP2 regulates neuronal stem cell differentiation during cortical development. Development (Cambridge), 2013, 140, e1-e1. | 2.5 | 0 |
| 97 | Altering the Temporal Regulation of One Transcription Factor Drives Sensory Trade-Offs. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 98 | Title is missing!. , 2020, 18, e3000703. | | 0 |
| 99 | Title is missing!. , 2020, 18, e3000703. | | 0 |
| 100 | Title is missing!. , 2020, 18, e3000703. | | 0 |
| 101 | Title is missing!. , 2020, 18, e3000703. | | 0 |
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