# Elizabeth R Gavis

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 66 papers | 4,842 citations | 159585 30 h-index | 128289 60 g-index |
| 88 all docs | 88 docs citations | 88 times ranked | 3123 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis of transcriptional regulatory signals of the HSV thymidine kinase gene: Identification of an upstream control region. Cell, 1981, 25, 385-398. | 28.9 | 710 |
| 2 | Live Imaging of Endogenous RNA Reveals a Diffusion and Entrapment Mechanism for nanos mRNA Localization in Drosophila. Current Biology, 2003, 13, 1159-1168. | 3.9 | 378 |
| 3 | Localization of nanos RNA controls embryonic polarity. Cell, 1992, 71, 301-313. | 28.9 | 373 |
| 4 | Ribosome profiling reveals pervasive and regulated stop codon readthrough in Drosophila melanogaster. ELife, 2013, 2, e01179. | 6.0 | 335 |
| 5 | Translational regulation of nanos by RNA localization. Nature, 1994, 369, 315-318. | 27.8 | 286 |
| 6 | nanos and pumilio Are Essential for Dendrite Morphogenesis in Drosophila Peripheral Neurons. Current Biology, 2004, 14, 314-321. | 3.9 | 212 |
| 7 | An Ultrabithorax protein binds sequences near its own and the Antennapedia P1 promoters. Cell, 1988, 55, 1069-1081. | 28.9 | 193 |
| 8 | Expression of the herpes thymidine kinase gene in Xenopus laevis oocytes: an assay for the study of deletion mutants constructed in vitro. Nucleic Acids Research, 1980, 8, 5931-5948. | 14.5 | 183 |
| 9 | Localization of bicoid mRNA in Late Oocytes Is Maintained by Continual Active Transport. Developmental Cell, 2006, 11, 251-262. | 7.0 | 159 |
| 10 | Independent and coordinate trafficking of single Drosophila germ plasm mRNAs. Nature Cell Biology, 2015, 17, 558-568. | 10.3 | 147 |
| 11 | Lighting up mRNA localization in<i>Drosophila</i>oogenesis. Development (Cambridge), 2009, 136, 2493-2503. | 2.5 | 129 |
| 12 | Identification ofcis-Acting Sequences That ControlnanosRNA Localization. Developmental Biology, 1996, 176, 36-50. | 2.0 | 119 |
| 13 | Overlapping but Distinct RNA Elements Control Repression and Activation of nanos Translation. Molecular Cell, 2000, 5, 457-467. | 9.7 | 98 |
| 14 | Synthesis of the posterior determinant Nanos is spatially restricted by a novel cotranslational regulatory mechanism. Current Biology, 2000, 10, 1311-1314. | 3.9 | 94 |
| 15 | Transport of Germ Plasm on Astral Microtubules Directs Germ Cell Development in Drosophila. Current Biology, 2011, 21, 439-448. | 3.9 | 83 |
| 16 | Glorund, a Drosophila hnRNP F/H Homolog, Is an Ovarian Repressor of nanos Translation. Developmental Cell, 2006, 10, 291-301. | 7.0 | 73 |
| 17 | Changes in bicoid mRNA Anchoring Highlight Conserved Mechanisms during the Oocyte-to-Embryo Transition. Current Biology, 2008, 18, 1055-1061. | 3.9 | 68 |
| 18 | The dynamics of fluorescently labeled endogenous<i>gurken</i>mRNA in<i>Drosophila</i>. Journal of Cell Science, 2008, 121, 887-894. | 2.0 | 68 |

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|---|---|---|---|
| 19 | Spatial Regulation of nanos Is Required for Its Function in Dendrite Morphogenesis. Current Biology, 2008, 18, 745-750. | 3.9 | 64 |
| 20 | Temporal complexity within a translational control element in the nanos mRNA. Development (Cambridge), 2004, 131, 5849-5857. | 2.5 | 62 |
| 21 | The Translational Repressors Nanos and Pumilio Have Divergent Effects on Presynaptic Terminal Growth and Postsynaptic Glutamate Receptor Subunit Composition. Journal of Neuroscience, 2009, 29, 5558-5572. | 3.6 | 59 |
| 22 | Sequence-Independent Self-Assembly of Germ Granule mRNAs into Homotypic Clusters. Molecular Cell, 2020, 78, 941-950.e12. | 9.7 | 58 |
| 23 | Stochastic Seeding Coupled with mRNA Self-Recruitment Generates Heterogeneous Drosophila Germ Granules. Current Biology, 2018, 28, 1872-1881.e3. | 3.9 | 54 |
| 24 | A late phase of germ plasm accumulation during <i>Drosophila</i> oogenesis requires Lost and Rumpelstiltskin. Development (Cambridge), 2011, 138, 3431-3440. | 2.5 | 44 |
| 25 | Regional Modulation of a Stochastically Expressed Factor Determines Photoreceptor Subtypes in the Drosophila Retina. Developmental Cell, 2013, 25, 93-105. | 7.0 | 44 |
| 26 | Dynein-Dependent Transport of<i>nanos</i>RNA in<i>Drosophila</i>Sensory Neurons Requires Rumpelstiltskin and the Germ Plasm Organizer Oskar. Journal of Neuroscience, 2013, 33, 14791-14800. | 3.6 | 40 |
| 27 | Germ Plasm Anchoring Is a Dynamic State that Requires Persistent Trafficking. Cell Reports, 2013, 5, 1169-1177. | 6.4 | 38 |
| 28 | bicoid mRNA localises to the Drosophila oocyte anterior by random Dynein-mediated transport and anchoring. ELife, 2016, 5, . | 6.0 | 38 |
| 29 | Fixed and live visualization of RNAs in Drosophila oocytes and embryos. Methods, 2016, 98, 34-41. | 3.8 | 37 |
| 30 | Expression of human Î²-interferon cDNA under the control of a thymidine kinase promoter from herpes simplex virus. Nature, 1982, 297, 598-601. | 27.8 | 36 |
| 31 | Distinguishing direct from indirect roles for <i>bicoid</i> mRNA localization factors. Development (Cambridge), 2010, 137, 169-176. | 2.5 | 35 |
| 32 | Aubergine is a component of a nanos mRNA localization complex. Developmental Biology, 2011, 349, 46-52. | 2.0 | 34 |
| 33 | The<i>Drosophila</i>hnRNP M homolog Rumpelstiltskin regulates<i>nanos</i>mRNA localization. Development (Cambridge), 2008, 135, 973-982. | 2.5 | 33 |
| 34 | Glorund interactions in the regulation of gurken and oskar mRNAs. Developmental Biology, 2009, 326, 68-74. | 2.0 | 28 |
| 35 | Multiple mechanisms collaborate to repress <i>nanos</i> translation in the <i>Drosophila</i> ovary and embryo. Rna, 2011, 17, 967-977. | 3.5 | 28 |
| 36 | Phospho-Rasputin Stabilization by Sec16 Is Required for Stress Granule Formation upon Amino Acid Starvation. Cell Reports, 2017, 20, 935-948. | 6.4 | 27 |

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|---|---|---|---|
| 37 | Distinct <i>cis</i>-acting elements mediate targeting and clustering of <i>Drosophila</i> polar granule mRNAs. Development (Cambridge), 2018, 145, . | 2.5 | 27 |
| 38 | Extensive Use of RNA-Binding Proteins in<i>Drosophila</i>Sensory Neuron Dendrite Morphogenesis. G3: Genes, Genomes, Genetics, 2014, 4, 297-306. | 1.8 | 26 |
| 39 | Enclosure of Dendrites by Epidermal Cells Restricts Branching and Permits Coordinated Development of Spatially Overlapping Sensory Neurons. Cell Reports, 2017, 20, 3043-3056. | 6.4 | 26 |
| 40 | Compartmentalized oskar degradation in the germ plasm safeguards germline development. ELife, 2020, 9, . | 6.0 | 26 |
| 41 | Combinatorial use of translational co-factors for cell type-specific regulation during neuronal morphogenesis in Drosophila. Developmental Biology, 2012, 365, 208-218. | 2.0 | 25 |
| 42 | Germ Cell-less Promotes Centrosome Segregation to Induce Germ Cell Formation. Cell Reports, 2017, 18, 831-839. | 6.4 | 24 |
| 43 | Coupled oscillators coordinate collective germline growth. Developmental Cell, 2021, 56, 860-870.e8. | 7.0 | 21 |
| 44 | Bazooka regulates microtubule organization and spatial restriction of germ plasm assembly in the Drosophila oocyte. Developmental Biology, 2010, 340, 528-538. | 2.0 | 19 |
| 45 | Dispensability of nanos mRNA localization for abdominal patterning but not for germ cell development. Mechanisms of Development, 2008, 125, 81-90. | 1.7 | 18 |
| 46 | Nanos-mediated repression of <i>hid</i> protects larval sensory neurons after a switch in sensitivity to apoptotic signals. Development (Cambridge), 2016, 143, 2147-59. | 2.5 | 16 |
| 47 | The Drosophila hnRNP F/H Homolog Glorund Uses Two Distinct RNA-Binding Modes to Diversify Target Recognition. Cell Reports, 2017, 19, 150-161. | 6.4 | 15 |
| 48 | A Genome-Wide Screen for Dendritically Localized RNAs Identifies Genes Required for Dendrite Morphogenesis. G3: Genes, Genomes, Genetics, 2016, 6, 2397-2405. | 1.8 | 14 |
| 49 | The ELAV/Hu protein Found in neurons regulates cytoskeletal and ECM adhesion inputs for space-filling dendrite growth. PLoS Genetics, 2020, 16, e1009235. | 3.5 | 14 |
| 50 | Over the rainbow to translational control. , 2001, 8, 387-389. | | 13 |
| 51 | The nanos translational control element represses translation in somatic cells by a Bearded box-like motif. Developmental Biology, 2005, 282, 207-217. | 2.0 | 13 |
| 52 | Bidirectional communication in oogenesis: a dynamic conversation in mice and Drosophila. Trends in Cell Biology, 2022, 32, 311-323. | 7.9 | 13 |
| 53 | Removal of <em>Drosophila</em> Muscle Tissue from Larval Fillets for Immunofluorescence Analysis of Sensory Neurons and Epidermal Cells. Journal of Visualized Experiments, 2016, , . | 0.3 | 11 |
| 54 | A common translational control mechanism functions in axial patterning and neuroendocrine signaling in<i>Drosophila</i>. Development (Cambridge), 2002, 129, 3325-3334. | 2.5 | 11 |

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|---|---|---|---|
| 55 | Specific Localization of the Drosophila Telomere Transposon Proteins and RNAs, Give Insight in Their Behavior, Control and Telomere Biology in This Organism. PLoS ONE, 2015, 10, e0128573. | 2.5 | 10 |
| 56 | Staufen does double duty. Nature Structural and Molecular Biology, 2005, 12, 291-292. | 8.2 | 6 |
| 57 | A genetic in vivo system to detect asymmetrically distributed RNA. EMBO Reports, 2011, 12, 1167-1174. | 4.5 | 6 |
| 58 | A common translational control mechanism functions in axial patterning and neuroendocrine signaling in Drosophila. Development (Cambridge), 2002, 129, 3325-34. | 2.5 | 6 |
| 59 | Computational modeling offers new insight intoÂDrosophila germ granule development. Biophysical Journal, 2022, 121, 1465-1482. | 0.5 | 6 |
| 60 | The <i>Drosophila</i> hnRNP F/H homolog Glorund recruits dFMRP to inhibit <i>nanos</i> translation elongation. Nucleic Acids Research, 2022, 50, 7067-7083. | 14.5 | 3 |
| 61 | Pattern Formation: Gurken meets torpedo for the first time. Current Biology, 1995, 5, 1252-1254. | 3.9 | 2 |
| 62 | The <i>Drosophila</i> Fragile X mental retardation protein modulates the neuronal cytoskeleton to limit dendritic arborization. Development (Cambridge), 2022, 149, . | 2.5 | 1 |
| 63 | Title is missing!. , 2020, 16, e1009235. | | 0 |
| 64 | Title is missing!. , 2020, 16, e1009235. | | 0 |
| 65 | Title is missing!. , 2020, 16, e1009235. | | 0 |
| 66 | Title is missing!. , 2020, 16, e1009235. | | 0 |