Robert J Johnston Jr

List of Publications by Year
in descending order

41 papers	1,967 citations	516215 16 h-index	377514 34 g-index
52 all docs	52 docs citations	52 times ranked	2368 citing authors

#	Article	IF	Citations
1	A microRNA controlling left/right neuronal asymmetry in Caenorhabditis elegans. Nature, 2003, 426, 845-849.	13.7	707
2	Thyroid hormone signaling specifies cone subtypes in human retinal organoids. Science, 2018, 362, .	6.0	188
3	Stochastic Mechanisms of Cell Fate Specification that Yield Random or Robust Outcomes. Annual Review of Cell and Developmental Biology, 2010, 26, 689-719.	4.0	115
4	Iroquois Complex Genes Induce Co-Expression of rhodopsins in Drosophila. PLoS Biology, 2008, 6, e97.	2.6	103
5	Mechanisms of Photoreceptor Patterning in Vertebrates and Invertebrates. Trends in Genetics, 2016, 32, 638-659.	2.9	89
6	Interlocked Feedforward Loops Control Cell-Type-Specific Rhodopsin Expression in the Drosophila Eye. Cell, 2011, 145, 956-968.	13.5	78
7	Interchromosomal Communication Coordinates Intrinsically Stochastic Expression Between Alleles. Science, 2014, 343, 661-665.	6.0	76
8	Buffering and Amplifying Transcriptional Noise During Cell Fate Specification. Frontiers in Genetics, 2018, 9, 591.	1.1	68
9	Dissection and Immunohistochemistry of Larval, Pupal and Adult Drosophila Retinas. Journal of Visualized Experiments, 2012, , 4347.	0.2	64
10	Feedback from rhodopsin controls rhodopsin exclusion in Drosophila photoreceptors. Nature, 2011, 479, 108-112.	13.7	48
11	Regional Modulation of a Stochastically Expressed Factor Determines Photoreceptor Subtypes in the Drosophila Retina. Developmental Cell, 2013, 25, 93-105.	3.1	44
12	Characterization of Button Loci that Promote Homologous Chromosome Pairing and Cell-Type-Specific Interchromosomal Gene Regulation. Developmental Cell, 2019, 51, 341-356.e7.	3.1	41
13	The neuronal transcription factor erect wing regulates specification and maintenance of Drosophila R8 photoreceptor subtypes. Developmental Biology, 2013, 381, 482-490.	0.9	34
14	Stochastic neuronal cell fate choices. Current Opinion in Neurobiology, 2008, 18, 20-27.	2.0	29
15	Natural variation in stochastic photoreceptor specification and color preference in Drosophila. ELife, 2017, 6, .	2.8	27
16	Patterning and Development of Photoreceptors in the Human Retina. Frontiers in Cell and Developmental Biology, 2022, 10, 878350.	1.8	26
17	A feed-forward relay integrates the regulatory activities of Bicoid and Orthodenticle via sequential binding to suboptimal sites. Genes and Development, 2018, 32, 723-736.	2.7	24
18	Lessons about terminal differentiation from the specification of colorâ€detecting photoreceptors in the Drosophila retina. Annals of the New York Academy of Sciences, 2013, 1293, 33-44.	1.8	20

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19	Regulatory logic driving stable levels of defective proventriculus expression during terminal photoreceptor specification in flies. Development (Cambridge), 2017, 144, 844-855.	1.2	20
20	CRISPR Generated SIX6 and POU4F2 Reporters Allow Identification of Brain and Optic Transcriptional Differences in Human PSC-Derived Organoids. Frontiers in Cell and Developmental Biology, 2021, 9, 764725.	1.8	19
21	Human neural organoids: Models for developmental neurobiology and disease. Developmental Biology, 2021, 478, 102-121.	0.9	18
22	Thyroid hormone signaling specifies cone photoreceptor subtypes during eye development: Insights from model organisms and human stem cell-derived retinal organoids. Vitamins and Hormones, 2021, 116, 51-90.	0.7	17
23	Characterization of histone inheritance patterns in the Drosophila female germline. EMBO Reports, 2021, 22, e51530.	2.0	15
24	Pluripotent stem cell therapy for retinal diseases. Annals of Translational Medicine, 2021, 9, 1279-1279.	0.7	12
25	Temporally dynamic antagonism between transcription and chromatin compaction controls stochastic photoreceptor specification in flies. Developmental Cell, 2022, 57, 1817-1832.e5.	3.1	12
26	The BEAF-32 insulator protein is required for Hippo pathway activity in the terminal differentiation of neuronal subtypes. Development (Cambridge), 2016, 143, 2389-97.	1.2	11
27	Modeling binary and graded cone cell fate patterning in the mouse retina. PLoS Computational Biology, 2020, 16, e1007691.	1.5	10
28	The mir-279/996 cluster represses receptor tyrosine kinase signaling to determine cell fates in the Drosophila eye. Development (Cambridge), 2018, 145, .	1.2	8
29	A Penetrating Look at Stochasticity in Development. Cell, 2010, 140, 610-612.	13.5	7
30	Stochastic De-repression of Rhodopsins in Single Photoreceptors of the Fly Retina. PLoS Computational Biology, 2012, 8, e1002357.	1.5	5
31	Interdependent regulation of stereotyped and stochastic photoreceptor fates in the fly eye. Developmental Biology, 2021, 471, 89-96.	0.9	5
32	Transcriptional repression in stochastic gene expression, patterning, and cell fate specification. Developmental Biology, 2022, 481, 129-138.	0.9	5
33	Maintaining a stochastic neuronal cell fate decision: Figure 1.. Genes and Development, 2009, 23, 385-390.	2.7	4
34	TADs Pair Homologous Chromosomes to Promote Interchromosomal Gene Regulation. SSRN Electronic Journal, 0, , .	0.4	2
35	Thyroid hormone signaling specifies cone subtypes in human retinal organoids. Journal of Vision, 2019, 19, 15.	0.1	2
36	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0

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37	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0
38	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0
39	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0
40	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0
41	Modeling binary and graded cone cell fate patterning in the mouse retina. , 2020, 16, e1007691.		0