

# Toshiro Aigaki

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,647  
citations

331670

21  
h-index

302126

39  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2494  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ectopic expression of sex peptide alters reproductive behavior of female <i>D. melanogaster</i> . <i>Neuron</i> , 1991, 7, 557-563.	8.1	245
2	A Comprehensive Genomic Analysis Reveals the Genetic Landscape of Mitochondrial Respiratory Chain Complex Deficiencies. <i>PLoS Genetics</i> , 2016, 12, e1005679.	3.5	236
3	The Gene Search System: A Method for Efficient Detection and Rapid Molecular Identification of Genes in <i>Drosophila melanogaster</i> . <i>Genetics</i> , 1999, 151, 725-737.	2.9	214
4	Calcium waves occur as <i>Drosophila</i> oocytes activate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 791-796.	7.1	82
5	The Calcineurin Regulator Sra Plays an Essential Role in Female Meiosis in <i>Drosophila</i> . <i>Current Biology</i> , 2006, 16, 1435-1440.	3.9	63
6	Application of the gene search system to screen for longevity genes in <i>Drosophila</i> . <i>Biogerontology</i> , 2001, 2, 209-217.	3.9	62
7	A gain-of-function screen identifies <i>wdb</i> and <i>lkb1</i> as lifespan-extending genes in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2011, 405, 667-672.	2.1	57
8	Calcineurin and its regulation by Sra/RCAN is required for completion of meiosis in <i>Drosophila</i> . <i>Developmental Biology</i> , 2010, 344, 957-967.	2.0	48
9	Calcineurin and Its Regulator Sra/DSCR1 Are Essential for Sleep in <i>Drosophila</i> . <i>Journal of Neuroscience</i> , 2011, 31, 12759-12766.	3.6	48
10	Shaggy/glycogen synthase kinase 3 <sup>2</sup> and phosphorylation of Sarah/regulator of calcineurin are essential for completion of <i>Drosophila</i> female meiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6382-6389.	7.1	44
11	Thioredoxin Suppresses Parkin-associated Endothelin Receptor-like Receptor-induced Neurotoxicity and Extends Longevity in <i>Drosophila</i> . <i>Journal of Biological Chemistry</i> , 2007, 282, 11180-11187.	3.4	42
12	POSH, a scaffold protein for JNK signaling, binds to ALG-2 and ALIX in <i>Drosophila</i> . <i>FEBS Letters</i> , 2006, 580, 3296-3300.	2.8	38
13	Vitamin C deficiency causes muscle atrophy and a deterioration in physical performance. <i>Scientific Reports</i> , 2019, 9, 4702.	3.3	35
14	Loss of <i>Trx<sup>2</sup></i> enhances oxidative stress-dependent phenotypes in <i>Drosophila</i> . <i>FEBS Letters</i> , 2010, 584, 3398-3401.	2.8	34
15	Impaired energy metabolism in a <i>Drosophila</i> model of mitochondrial aconitase deficiency. <i>Biochemical and Biophysical Research Communications</i> , 2013, 433, 145-150.	2.1	33
16	Immobilization of Bone Morphogenetic Protein on DOPA- or Dopamine-Treated Titanium Surfaces to Enhance Osseointegration. <i>BioMed Research International</i> , 2013, 2013, 1-6.	1.9	33
17	Epigenetic regulation of the glucose transporter gene <i>Slc2a1</i> by <sup>12</sup> C-hydroxybutyrate underlies preferential glucose supply to the brain of fasted mice. <i>Genes To Cells</i> , 2017, 22, 71-83.	1.2	33
18	Visualizing Molecular Functions and Cross-Species Activity of Sex-Peptide in <i>Drosophila</i> . <i>Genetics</i> , 2015, 200, 1161-1169.	2.9	31

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19	The WASp-based actin polymerization machinery is required in somatic support cells for spermatid maturation and release. <i>Development (Cambridge)</i> , 2011, 138, 2729-2739.	2.5	24
20	A fluorogenic peptide probe developed by in vitro selection using tRNA carrying a fluorogenic amino acid. <i>Chemical Communications</i> , 2014, 50, 2962-2964.	4.1	24
21	Insulin-degrading enzyme antagonizes insulin-dependent tissue growth and $\text{A}\beta$ -induced neurotoxicity in <i>Drosophila</i> . <i>FEBS Letters</i> , 2010, 584, 2916-2920.	2.8	22
22	A mev-1-like dominant-negative SdhC increases oxidative stress and reduces lifespan in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2007, 363, 342-346.	2.1	20
23	Impaired fatty acid oxidation in a <i>Drosophila</i> model of mitochondrial trifunctional protein (MTP) deficiency. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 344-349.	2.1	20
24	Guarana improves behavior and inflammatory alterations triggered by methylmercury exposure: an in vivo fruit fly and in vitro neural cells study. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15069-15083.	5.3	20
25	Evolution of sex-peptide in <i>Drosophila</i> . <i>Fly</i> , 2016, 10, 172-177.	1.7	19
26	Defective transfer of seminal-fluid materials during matings of semi-fertile fruitless mutants in <i>Drosophila</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2006, 192, 1253-1269.	1.6	18
27	Deficiency of succinyl-CoA synthetase $\beta$ subunit delays development, impairs locomotor activity and reduces survival under starvation in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2017, 483, 566-571.	2.1	17
28	Overexpression of dilp2 causes nutrient-dependent semi-lethality in <i>Drosophila</i> . <i>Frontiers in Physiology</i> , 2014, 5, 147.	2.8	14
29	Parental and preimaginal exposure to methylmercury disrupts locomotor activity and circadian rhythm of adult <i>Drosophila melanogaster</i> . <i>Drug and Chemical Toxicology</i> , 2020, 43, 255-265.	2.3	12
30	POSH promotes cell survival in <i>Drosophila</i> and in human RASf cells. <i>FEBS Letters</i> , 2010, 584, 4689-4694.	2.8	11
31	In vitro selection of electrochemical peptide probes using bioorthogonal tRNA for influenza virus detection. <i>Chemical Communications</i> , 2018, 54, 5201-5204.	4.1	11
32	In vitro selection of a peptide aptamer that changes fluorescence in response to verotoxin. <i>Biotechnology Letters</i> , 2015, 37, 619-625.	2.2	10
33	Polypeptide aptamer selection using a stabilized ribosome display. <i>Journal of Bioscience and Bioengineering</i> , 2011, 112, 515-517.	2.2	7
34	Regulation of photosensitisation processes by an RNA aptamer. <i>Scientific Reports</i> , 2017, 7, 43272.	3.3	4
35	Wash-free and selective imaging of epithelial cell adhesion molecule (EpcAM) expressing cells with fluorogenic peptide ligands. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 283-287.	2.1	4
36	Ski3/TTC37 deficiency associated with trichohepatoenteric syndrome causes mitochondrial dysfunction in <i>Drosophila</i> . <i>FEBS Letters</i> , 2020, 594, 2168-2181.	2.8	4

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37	Interactions of in vitro selected fluorogenic peptide aptamers with calmodulin. <i>Biotechnology Letters</i> , 2017, 39, 375-382.	2.2	3
38	The plant homeodomain finger protein MESR4 is essential for embryonic development in <i>Drosophila</i> . <i>Genesis</i> , 2015, 53, 701-708.	1.6	2
39	Overexpression of Larp4B downregulates dMyc and reduces cell and organ sizes in <i>Drosophila</i> . <i>Biochemical and Biophysical Research Communications</i> , 2018, 497, 762-768.	2.1	2
40	A calcium rise occurs as activating <i>Drosophila</i> eggs move through the female reproductive tract. <i>Molecular Reproduction and Development</i> , 2015, 82, 501-501.	2.0	0