

Masayuki Miura

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,918
citations

186265

28
h-index

133252

59
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79
all docs

79
docs citations

79
times ranked

6146
citing authors

#	ARTICLE	IF	CITATIONS
1	Methionine Metabolism Regulates Maintenance and Differentiation of Human Pluripotent Stem Cells. <i>Cell Metabolism</i> , 2014, 19, 780-794.	16.2	421
2	Caspase-1 initiates apoptosis in the absence of gasdermin D. <i>Nature Communications</i> , 2019, 10, 2091.	12.8	301
3	Spatio-temporal activation of caspase revealed by indicator that is insensitive to environmental effects. <i>Journal of Cell Biology</i> , 2003, 160, 235-243.	5.2	268
4	HIF-1 α -PDK1 axis-induced active glycolysis plays an essential role in macrophage migratory capacity. <i>Nature Communications</i> , 2016, 7, 11635.	12.8	233
5	Programmed Cell Death in Neurodevelopment. <i>Developmental Cell</i> , 2015, 32, 478-490.	7.0	199
6	DRONC Coordinates Cell Death and Compensatory Proliferation. <i>Molecular and Cellular Biology</i> , 2006, 26, 7258-7268.	2.3	175
7	Nonapoptotic functions of caspases: caspases as regulatory molecules for immunity and cell-fate determination. <i>Trends in Cell Biology</i> , 2007, 17, 135-144.	7.9	173
8	Live imaging of apoptosis in a novel transgenic mouse highlights its role in neural tube closure. <i>Journal of Cell Biology</i> , 2011, 195, 1047-1060.	5.2	168
9	Single-Cell Imaging of Caspase-1 Dynamics Reveals an All-or-None Inflammasome Signaling Response. <i>Cell Reports</i> , 2014, 8, 974-982.	6.4	130
10	A20 prevents inflammasome-dependent arthritis by inhibiting macrophage necroptosis through its ZnF7 ubiquitin-binding domain. <i>Nature Cell Biology</i> , 2019, 21, 731-742.	10.3	122
11	Enhancing S-adenosyl-methionine catabolism extends <i>Drosophila</i> lifespan. <i>Nature Communications</i> , 2015, 6, 8332.	12.8	103
12	<i>Drosophila</i> caspase transduces Shaggy/GSK-3 β kinase activity in neural precursor development. <i>EMBO Journal</i> , 2005, 24, 3793-3806.	7.8	96
13	Local Apoptosis Modulates Early Mammalian Brain Development through the Elimination of Morphogen-Producing Cells. <i>Developmental Cell</i> , 2013, 27, 621-634.	7.0	92
14	ESCRT-III mediates budding across the inner nuclear membrane and regulates its integrity. <i>Nature Communications</i> , 2018, 9, 3379.	12.8	86
15	Nutritional Control of Stem Cell Division through S-Adenosylmethionine in <i>Drosophila</i> Intestine. <i>Developmental Cell</i> , 2018, 44, 741-751.e3.	7.0	79
16	The <i>Drosophila</i> TNF ortholog Eiger: Emerging physiological roles and evolution of the TNF system. <i>Seminars in Immunology</i> , 2014, 26, 267-274.	5.6	77
17	Rewiring of embryonic glucose metabolism via suppression of PFK-1 and aldolase during mouse chorioallantoic branching. <i>Development (Cambridge)</i> , 2017, 144, 63-73.	2.5	70
18	Necrosis-Driven Systemic Immune Response Alters SAM Metabolism through the FOXO-GNMT Axis. <i>Cell Reports</i> , 2014, 7, 821-833.	6.4	69

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19	A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. <i>Nature Communications</i> , 2018, 9, 4457.	12.8	65
20	Apoptotic and Nonapoptotic Caspase Functions in Animal Development. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a008664-a008664.	5.5	64
21	Temporal regulation of <i>Drosophila</i> IAP1 determines caspase functions in sensory organ development. <i>Journal of Cell Biology</i> , 2009, 187, 219-231.	5.2	60
22	Biallelic TBCD Mutations Cause Early-Onset Neurodegenerative Encephalopathy. <i>American Journal of Human Genetics</i> , 2016, 99, 950-961.	6.2	51
23	Activatable Photosensitizer for Targeted Ablation of <i>lacZ</i> -Positive Cells with Single-Cell Resolution. <i>ACS Central Science</i> , 2019, 5, 1676-1681.	11.3	50
24	Dronc-independent basal executioner caspase activity sustains <i>Drosophila</i> imaginal tissue growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20539-20544.	7.1	44
25	<i>Drosophila</i> Strip serves as a platform for early endosome organization during axon elongation. <i>Nature Communications</i> , 2014, 5, 5180.	12.8	40
26	The Strip-Hippo Pathway Regulates Synaptic Terminal Formation by Modulating Actin Organization at the <i>Drosophila</i> Neuromuscular Synapses. <i>Cell Reports</i> , 2016, 16, 2289-2297.	6.4	39
27	Active participation of cell death in development and organismal homeostasis. <i>Development Growth and Differentiation</i> , 2011, 53, 125-136.	1.5	36
28	Programmed Cell Death and Caspase Functions During Neural Development. <i>Current Topics in Developmental Biology</i> , 2015, 114, 159-184.	2.2	36
29	Linking Cell Surface Receptors to Microtubules: Tubulin Folding Cofactor D Mediates Dscam Functions during Neuronal Morphogenesis. <i>Journal of Neuroscience</i> , 2015, 35, 1979-1990.	3.6	30
30	Decreases in body temperature and body mass constitute pre-hibernation remodelling in the Syrian golden hamster, a facultative mammalian hibernator. <i>Royal Society Open Science</i> , 2016, 3, 160002.	2.4	30
31	Induction of rapid and selective cell necrosis in <i>Drosophila</i> using <i>Bacillus thuringiensis</i> Cry toxin and its silkworm receptor. <i>BMC Biology</i> , 2015, 13, 48.	3.8	29
32	Oxytocin/vasopressin-like peptide inotocin regulates cuticular hydrocarbon synthesis and water balancing in ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5597-5606.	7.1	29
33	Tissue nonautonomous effects of fat body methionine metabolism on imaginal disc repair in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1835-1840.	7.1	28
34	Gut Bacterial Species Distinctively Impact Host Purine Metabolites during Aging in <i>Drosophila</i> . <i>IScience</i> , 2020, 23, 101477.	4.1	28
35	Mechanisms of Systemic Wound Response in <i>Drosophila</i> . <i>Current Topics in Developmental Biology</i> , 2014, 108, 153-183.	2.2	25
36	Arl8b is required for lysosomal degradation of maternal proteins in the visceral yolk sac endoderm of mouse embryos. <i>Journal of Cell Science</i> , 2017, 130, 3568-3577.	2.0	23

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37	Caspase Inhibition in Select Olfactory Neurons Restores Innate Attraction Behavior in Aged <i>Drosophila</i> . <i>PLoS Genetics</i> , 2014, 10, e1004437.	3.5	21
38	A STRIPAK component Strip regulates neuronal morphogenesis by affecting microtubule stability. <i>Scientific Reports</i> , 2016, 5, 17769.	3.3	21
39	Apoptotic and Non-apoptotic Caspase Functions in Neural Development. <i>Neurochemical Research</i> , 2011, 36, 1253-1260.	3.3	20
40	Local Necrotic Cells Trigger Systemic Immune Activation via Gut Microbiome Dysbiosis in <i>Drosophila</i> . <i>Cell Reports</i> , 2020, 32, 107938.	6.4	20
41	Development of olfactory projection neuron dendrites that contribute to wiring specificity of the <i>Drosophila</i> olfactory circuit. <i>Genes and Genetic Systems</i> , 2014, 89, 17-26.	0.7	17
42	Non-apoptotic function of <i>Drosophila</i> caspase activation in epithelial thorax closure and wound healing. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	17
43	The hidden nature of protein translational control by diphthamide: the secrets under the leather. <i>Journal of Biochemistry</i> , 2019, 165, 1-8.	1.7	17
44	Remote solid cancers rewire hepatic nitrogen metabolism via host nicotinamide-N-methyltransferase. <i>Nature Communications</i> , 2022, 13, .	12.8	16
45	Detection of <i>LacZ</i> -Positive Cells in Living Tissue with Single-Cell Resolution. <i>Angewandte Chemie</i> , 2016, 128, 9772-9776.	2.0	15
46	Molecular Basis of White Adipose Tissue Remodeling That Precedes and Coincides With Hibernation in the Syrian Hamster, a Food-Storing Hibernator. <i>Frontiers in Physiology</i> , 2018, 9, 1973.	2.8	15
47	ROS Regulate Caspase-Dependent Cell Delamination without Apoptosis in the <i>Drosophila</i> Pupal Notum. <i>IScience</i> , 2020, 23, 101413.	4.1	14
48	Kynurenine Metabolism in the Fat Body Non-autonomously Regulates Imaginal Disc Repair in <i>Drosophila</i> . <i>IScience</i> , 2020, 23, 101738.	4.1	12
49	Hepatic resistance to cold ferroptosis in a mammalian hibernator Syrian hamster depends on effective storage of diet-derived α -tocopherol. <i>Communications Biology</i> , 2021, 4, 796.	4.4	12
50	In vivo detection of programmed cell death during mouse heart development. <i>Cell Death and Differentiation</i> , 2020, 27, 1398-1414.	11.2	10
51	Hierarchical axon targeting of <i>Drosophila</i> olfactory receptor neurons specified by the proneural transcription factors Atonal and Amos. <i>Genes To Cells</i> , 2016, 21, 53-64.	1.2	9
52	Caspases and matrix metalloproteases facilitate collective behavior of non-neural ectoderm after hindbrain neuropore closure. <i>BMC Developmental Biology</i> , 2018, 18, 17.	2.1	9
53	Dendritic Eph organizes dendrodendritic segregation in discrete olfactory map formation in <i>Drosophila</i> . <i>Genes and Development</i> , 2017, 31, 1054-1065.	5.9	8
54	Neural tube closure and embryonic metabolism. <i>Congenital Anomalies (discontinued)</i> , 2017, 57, 134-137.	0.6	8

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55	Ubiquitin-Binding Protein CG5445 Suppresses Aggregation and Cytotoxicity of Amyotrophic Lateral Sclerosis-Linked TDP-43 in <i>Drosophila</i> . <i>Molecular and Cellular Biology</i> , 2018, 38, .	2.3	8
56	Amyotrophic lateral sclerosis-associated Vap33 is required for maintaining neuronal dendrite morphology and organelle distribution in <i>Drosophila</i> . <i>Genes To Cells</i> , 2021, 26, 230-239.	1.2	8
57	Activation of innate immunity during development induces unresolved dysbiotic inflammatory gut and shortens lifespan. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	8
58	In Vivo Monitoring of Caspase Activation Using a Fluorescence Resonance Energy Transfer-Based Fluorescent Probe. <i>Methods in Enzymology</i> , 2014, 544, 299-325.	1.0	7
59	<i>Drosophila</i> <i>scp>SETDB</scp>1</i> and caspase cooperatively fine-tune cell fate determination of sensory organ precursor. <i>Genes To Cells</i> , 2016, 21, 378-386.	1.2	6
60	Mammalian embryos show metabolic plasticity toward the surrounding environment during neural tube closure. <i>Genes To Cells</i> , 2018, 23, 794-802.	1.2	5
61	Temporal regulation of Lin28a during mammalian neurulation contributes to neonatal body size control. <i>Developmental Dynamics</i> , 2019, 248, 931-941.	1.8	5
62	Diphthamide modification of eEF2 is required for gut tumor-like hyperplasia induced by oncogenic Ras. <i>Genes To Cells</i> , 2020, 25, 76-85.	1.2	5
63	Who Lives and Who Dies. <i>Communicative and Integrative Biology</i> , 2011, 4, 495-497.	1.4	4
64	Apoptosis is involved in maintaining the character of the midbrain and the diencephalon roof plate after neural tube closure. <i>Developmental Biology</i> , 2020, 468, 101-109.	2.0	4
65	Biosynthesis of S-adenosyl-methionine enhances aging-related defects in <i>Drosophila</i> oogenesis. <i>Scientific Reports</i> , 2022, 12, 5593.	3.3	4
66	Transgenic mouse model for monitoring endoplasmic reticulum stress in vivo. <i>Nature Medicine</i> , 2004, 10, 1014-1014.	30.7	3
67	How tissue damage MET metabolism: Regulation of the systemic damage response. <i>Fly</i> , 2017, 11, 27-36.	1.7	3
68	Genetic Analysis for JNK-mediated Apoptosis. <i>Acta Histochemica Et Cytochemica</i> , 2004, 37, 223-226.	1.6	2
69	Transcriptional profiling of apoptosis-deficient <i>Drosophila</i> mutants. <i>Genomics Data</i> , 2014, 2, 254-257.	1.3	2
70	Addendum: A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. <i>Nature Communications</i> , 2019, 10, 1923.	12.8	2
71	Tolling of a Bell at a Neuron's Death. <i>Developmental Cell</i> , 2019, 48, 427-428.	7.0	2
72	Caspase-3 regulates ureteric branching in mice via cell migration. <i>Biochemical and Biophysical Research Communications</i> , 2021, 559, 28-34.	2.1	2

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73	The roles of tubulin-folding cofactors in neuronal morphogenesis and disease. <i>Neural Regeneration Research</i> , 2015, 10, 1388.	3.0	2
74	Endoplasmic reticulum proteins Meigo and Gp93 govern dendrite targeting by regulating Toll-6 localization. <i>Developmental Biology</i> , 2022, , .	2.0	2
75	Systemic innate immune response induces death of olfactory receptor neurons in <i>Drosophila</i> . <i>Genes To Cells</i> , 2022, 27, 113-123.	1.2	2
76	High expression of A-type lamin in the leading front is required for <i>Drosophila</i> thorax closure. <i>Biochemical and Biophysical Research Communications</i> , 2018, 499, 209-214.	2.1	1
77	Evidence for the involvement of caspases in establishing proper cerebrospinal fluid hydrodynamics. <i>Neuroscience Research</i> , 2021, 170, 145-153.	1.9	1
78	Loss of the small GTPase Arl8b results in abnormal development of the roof plate in mouse embryos. <i>Genes To Cells</i> , 2019, 24, 436-448.	1.2	0