

# Rika Umemiya-Shirafuji

## List of Publications by Year in descending order

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91  
papers

9,803  
citations

201674

27  
h-index

48315

88  
g-index

92  
all docs

92  
docs citations

92  
times ranked

21421  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Multiple vitellogenins from the <i>Haemaphysalis longicornis</i> tick are crucial for ovarian development. <i>Journal of Insect Physiology</i> , 2010, 56, 1587-1598.	2.0	114
4	Emergence of multi-acaricide resistant <i>Rhipicephalus</i> ticks and its implication on chemical tick control in Uganda. <i>Parasites and Vectors</i> , 2016, 9, 4.	2.5	107
5	A secreted cystatin from the tick <i>Haemaphysalis longicornis</i> and its distinct expression patterns in relation to innate immunity. <i>Insect Biochemistry and Molecular Biology</i> , 2006, 36, 527-535.	2.7	80
6	Autophagy and its physiological relevance in arthropods: Current knowledge and perspectives. <i>Autophagy</i> , 2010, 6, 575-588.	9.1	77
7	Tick vitellogenin receptor reveals critical role in oocyte development and transovarial transmission of <i>Babesia</i> parasite. <i>Biochemistry and Cell Biology</i> , 2008, 86, 331-344.	2.0	76
8	Molecular detection and characterization of <i>Babesia bovis</i> , <i>Babesia bigemina</i> , <i>Theileria</i> species and <i>Anaplasma marginale</i> isolated from cattle in Kenya. <i>Parasites and Vectors</i> , 2015, 8, 496.	2.5	63
9	Hemalin, a thrombin inhibitor isolated from a midgut cDNA library from the hard tick <i>Haemaphysalis longicornis</i> . <i>Journal of Insect Physiology</i> , 2009, 55, 165-174.	2.0	61
10	First glimpse into the origin and spread of the Asian longhorned tick, <i>Haemaphysalis longicornis</i> , in the United States. <i>Zoonoses and Public Health</i> , 2020, 67, 637-650.	2.2	61
11	Multiple ferritins are vital to successful blood feeding and reproduction of the hard tick <i>Haemaphysalis longicornis</i> . <i>Journal of Experimental Biology</i> , 2013, 216, 1905-15.	1.7	59
12	Iron metabolism in hard ticks (Acari: Ixodidae): The antidote to their toxic diet. <i>Parasitology International</i> , 2015, 64, 182-189.	1.3	55
13	Identification and characterisation of a leucine aminopeptidase from the hard tick <i>Haemaphysalis longicornis</i> . <i>International Journal for Parasitology</i> , 2006, 36, 1123-1132.	3.1	53
14	Babesiaparasites develop and are transmitted by the non-vector soft tick <i>Ornithodoros moubata</i> (Acari: Tj ETQq0 0 0 rgBT /Overlock 10	1.5	50
15	Evaluation and comparison of the potential of two ferritins as anti-tick vaccines against <i>Haemaphysalis longicornis</i> . <i>Parasites and Vectors</i> , 2014, 7, 482.	2.5	44
16	Two Kinds of Ferritin Protect Ixodid Ticks from Iron Overload and Consequent Oxidative Stress. <i>PLoS ONE</i> , 2014, 9, e90661.	2.5	44
17	Chemical tick control practices in southwestern and northwestern Uganda. <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 945-955.	2.7	41
18	Scavenger Receptor Mediates Systemic RNA Interference in Ticks. <i>PLoS ONE</i> , 2011, 6, e28407.	2.5	37

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19	Characterization of a carboxypeptidase inhibitor from the tick <i>Haemaphysalis longicornis</i> . <i>Journal of Insect Physiology</i> , 2007, 53, 1079-1087.	2.0	34
20	Molecular characterization of <i>Rhipicephalus (Boophilus) microplus</i> Bm86 homologue from <i>Haemaphysalis longicornis</i> ticks. <i>Veterinary Parasitology</i> , 2007, 146, 148-157.	1.8	33
21	RNA interference of cytosolic leucine aminopeptidase reduces fecundity in the hard tick, <i>Haemaphysalis longicornis</i> . <i>Parasitology Research</i> , 2007, 100, 847-854.	1.6	32
22	Akt is an essential player in regulating cell/organ growth at the adult stage in the hard tick <i>Haemaphysalis longicornis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2012, 42, 164-173.	2.7	32
23	ELECTRON MICROSCOPIC OBSERVATION OF THE INVASION PROCESS OF <i>CRYPTOSPORIDIUM PARVUM</i> IN SEVERE COMBINED IMMUNODEFICIENCY MICE. <i>Journal of Parasitology</i> , 2005, 91, 1034-1039.	0.7	31
24	Parasitocidal activity of human $\alpha$ -defensin-5 against <i>Toxoplasma gondii</i> . <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2010, 46, 560-565.	1.5	31
25	<i>Haemaphysalis longicornis</i> : Molecular characterization of a homologue of the macrophage migration inhibitory factor from the partially fed ticks. <i>Experimental Parasitology</i> , 2007, 115, 135-142.	1.2	30
26	Increased expression of ATG genes during nonfeeding periods in the tick <i>Haemaphysalis longicornis</i> . <i>Autophagy</i> , 2010, 6, 473-481.	9.1	30
27	Target of rapamycin (TOR) controls vitellogenesis via activation of the S6 kinase in the fat body of the tick, <i>Haemaphysalis longicornis</i> . <i>International Journal for Parasitology</i> , 2012, 42, 991-998.	3.1	30
28	Parasitocidal activity of <i>Haemaphysalis longicornis</i> longicin P4 peptide against <i>Toxoplasma gondii</i> . <i>Peptides</i> , 2012, 34, 242-250.	2.4	30
29	Prevalence, risk factors, and genetic diversity of veterinary important tick-borne pathogens in cattle from <i>Rhipicephalus microplus</i> -invaded and non-invaded areas of Benin. <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 450-464.	2.7	24
30	GATA transcription, translation and regulation in <i>Haemaphysalis longicornis</i> tick: Analysis of the cDNA and an essential role for vitellogenesis. <i>Insect Biochemistry and Molecular Biology</i> , 2010, 40, 49-57.	2.7	23
31	Identification and characterization of class B scavenger receptor CD36 from the hard tick, <i>Haemaphysalis longicornis</i> . <i>Parasitology Research</i> , 2011, 108, 273-285.	1.6	23
32	Functional analysis of protein disulfide isomerases in blood feeding, viability and oocyte development in <i>Haemaphysalis longicornis</i> ticks. <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 285-295.	2.7	21
33	Cloning and characterization of the autophagy-related gene 6 from the hard tick, <i>Haemaphysalis longicornis</i> . <i>Parasitology Research</i> , 2011, 109, 1341-1349.	1.6	21
34	Cloning and characterization of an autophagy-related gene, ATG12, from the three-host tick <i>Haemaphysalis longicornis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 975-984.	2.7	20
35	Molecular detection of spotted fever group rickettsiae in <i>Amblyomma variegatum</i> ticks from Benin. <i>Ticks and Tick-borne Diseases</i> , 2016, 7, 828-833.	2.7	20
36	Evidence-based tick acaricide resistance intervention strategy in Uganda: Concept and feedback of farmers and stakeholders. <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 254-265.	2.7	19

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37	HLSRB, a Class B Scavenger Receptor, Is Key to the Granulocyte-Mediated Microbial Phagocytosis in Ticks. <i>PLoS ONE</i> , 2012, 7, e33504.	2.5	19
38	Identification of three protein disulfide isomerase members from <i>Haemaphysalis longicornis</i> tick. <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 641-654.	2.7	18
39	Anti-babesial activity of a potent peptide fragment derived from longicin of <i>Haemaphysalis longicornis</i> . <i>Tropical Animal Health and Production</i> , 2012, 44, 343-348.	1.4	18
40	Phylogenetic relationships among <i>Linguatula serrata</i> isolates from Iran based on 18S rRNA and mitochondrial <i>cox1</i> gene sequences. <i>Acta Parasitologica</i> , 2016, 61, 190-5.	1.1	18
41	Structural Characterization and Cytolytic Activity of a Potent Antimicrobial Motif in Longicin, a Defensin-Like Peptide in the Tick <i>Haemaphysalis longicornis</i> . <i>Journal of Veterinary Medical Science</i> , 2010, 72, 149-156.	0.9	17
42	Establishment of a novel tick-Babesia experimental infection model. <i>Scientific Reports</i> , 2016, 6, 37039.	3.3	17
43	The development of oocytes in the ovary of a parthenogenetic tick, <i>Haemaphysalis longicornis</i> . <i>Parasitology International</i> , 2018, 67, 465-471.	1.3	17
44	Blocking the secretion of saliva by silencing the <i>HIYkt6</i> gene in the tick <i>Haemaphysalis longicornis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2009, 39, 372-381.	2.7	16
45	Expression analysis of autophagy-related genes in the hard tick <i>Haemaphysalis longicornis</i> . <i>Veterinary Parasitology</i> , 2014, 201, 169-175.	1.8	16
46	2-Cys peroxiredoxin is required in successful blood-feeding, reproduction, and antioxidant response in the hard tick <i>Haemaphysalis longicornis</i> . <i>Parasites and Vectors</i> , 2016, 9, 457.	2.5	16
47	Intracellular localization of vitellogenin receptor mRNA and protein during oogenesis of a parthenogenetic tick, <i>Haemaphysalis longicornis</i> . <i>Parasites and Vectors</i> , 2019, 12, 205.	2.5	15
48	Autophagy-related genes from a tick, <i>Haemaphysalis longicornis</i> . <i>Autophagy</i> , 2008, 4, 79-81.	9.1	13
49	Host-derived transferrin is maintained and transferred from midgut to ovary in <i>Haemaphysalis longicornis</i> ticks. <i>Ticks and Tick-borne Diseases</i> , 2014, 5, 121-126.	2.7	13
50	Transovarial persistence of <i>Babesia ovata</i> DNA in a hard tick, <i>Haemaphysalis longicornis</i> , in a semi-artificial mouse skin membrane feeding system. <i>Acta Parasitologica</i> , 2017, 62, 836-841.	1.1	13
51	A novel C-type lectin with triple carbohydrate recognition domains has critical roles for the hard tick <i>Haemaphysalis longicornis</i> against Gram-negative bacteria. <i>Developmental and Comparative Immunology</i> , 2016, 57, 38-47.	2.3	12
52	Genetic mutations in sodium channel domain II and carboxylesterase genes associated with phenotypic resistance against synthetic pyrethroids by <i>Rhipicephalus (Boophilus) decoloratus</i> ticks in Uganda. <i>Pesticide Biochemistry and Physiology</i> , 2017, 143, 181-190.	3.6	12
53	Expression analysis of glutathione S-transferases and ferritins during the embryogenesis of the tick <i>Haemaphysalis longicornis</i> . <i>Heliyon</i> , 2020, 6, e03644.	3.2	12
54	LKR/SDH Plays Important Roles throughout the Tick Life Cycle Including a Long Starvation Period. <i>PLoS ONE</i> , 2009, 4, e7136.	2.5	11

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55	The identification and characterization of lysozyme from the hard tick <i>Haemaphysalis longicornis</i> . <i>Ticks and Tick-borne Diseases</i> , 2010, 1, 178-185.	2.7	11
56	Induction of gene silencing in <i>Haemaphysalis longicornis</i> ticks through immersion in double-stranded RNA. <i>Ticks and Tick-borne Diseases</i> , 2016, 7, 813-816.	2.7	11
57	Epidemiological survey of a cervine <i>Theileria</i> in wild deer, questing ticks, and cattle in Hokkaido, Japan. <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 1235-1240.	2.7	11
58	Subolesin vaccination inhibits blood feeding and reproduction of <i>Haemaphysalis longicornis</i> in rabbits. <i>Parasites and Vectors</i> , 2020, 13, 478.	2.5	11
59	Immunofluorescent detection in the ovary of host antibodies against a secretory ferritin injected into female <i>Haemaphysalis longicornis</i> ticks. <i>Parasitology International</i> , 2018, 67, 119-122.	1.3	10
60	Differential diagnosis and molecular characterization of <i>Theileria</i> spp. in sika deer ( <i>Cervus nippon</i> ) in Hokkaido, Japan. <i>Parasitology International</i> , 2019, 70, 23-26.	1.3	10
61	Establishment of a mouse-tick infection model for <i>Theileria orientalis</i> and analysis of its transcriptome. <i>International Journal for Parasitology</i> , 2018, 48, 915-924.	3.1	9
62	RNAi of the translation inhibition gene 4E-BP identified from the hard tick, <i>Haemaphysalis longicornis</i> , affects lipid storage during the off-host starvation period of ticks. <i>Parasitology Research</i> , 2012, 111, 889-896.	1.6	8
63	Inhibitory effect of cyclophilin A from the hard tick <i>Haemaphysalis longicornis</i> on the growth of <i>Babesia bovis</i> and <i>Babesia bigemina</i> . <i>Parasitology Research</i> , 2013, 112, 2207-2213.	1.6	8
64	Initial development of <i>Babesia ovata</i> in the tick midgut. <i>Veterinary Parasitology</i> , 2017, 233, 39-42.	1.8	8
65	Peroxiredoxins are important for the regulation of hydrogen peroxide concentrations in ticks and tick cell line. <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 872-881.	2.7	8
66	Molecular Characterization of Ticks and Tick-Borne Pathogens in Cattle from Khartoum State and East Darfur State, Sudan. <i>Pathogens</i> , 2021, 10, 580.	2.8	8
67	Fertilizing ability of canine spermatozoa cryopreserved with skim milk-based extender in a retrospective study. <i>Reproduction in Domestic Animals</i> , 2018, 53, 237-242.	1.4	7
68	Hard ticks as research resources for vector biology: from genome to whole-body level. <i>Medical Entomology and Zoology</i> , 2019, 70, 181-188.	0.1	7
69	Identification of two forms of cyclophilin from the hard tick <i>Haemaphysalis longicornis</i> . <i>Process Biochemistry</i> , 2008, 43, 615-625.	3.7	6
70	RNA Interference – A Powerful Functional Analysis Tool for Studying Tick Biology and its Control. , 0, , .		6
71	Impaired cellular immune response to injected bacteria after knockdown of ferritin genes in the hard tick <i>Haemaphysalis longicornis</i> . <i>Parasitology International</i> , 2016, 65, 251-257.	1.3	6
72	C190A knockdown mutation in sodium channel domain II of pyrethroid-resistant <i>Rhipicephalus appendiculatus</i> . <i>Ticks and Tick-borne Diseases</i> , 2018, 9, 1590-1593.	2.7	6

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73	Initiated <i>Babesia ovata</i> Sexual Stages under In Vitro Conditions Were Recognized by Anti-CCp2 Antibodies, Showing Changes in the DNA Content by Imaging Flow Cytometry. <i>Pathogens</i> , 2019, 8, 104.	2.8	6
74	Chapter Thirty-Four Autophagy in Ticks. <i>Methods in Enzymology</i> , 2008, 451, 621-638.	1.0	5
75	Host Immunization with Recombinant Proteins to Screen Antigens for Tick Control. <i>Methods in Molecular Biology</i> , 2016, 1404, 261-273.	0.9	4
76	Development and evaluation of a novel loop-mediated isothermal amplification (LAMP) method targeting <i>Theileria</i> parasites infecting Yezo sika deer. <i>Parasitology International</i> , 2020, 77, 102130.	1.3	4
77	Vitellogenin-2 Accumulation in the Fat Body and Hemolymph of <i>Babesia</i> -Infected <i>Haemaphysalis longicornis</i> Ticks. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 12, .	3.9	4
78	Host specificity and in vivo infectivities of the mouse coccidian parasites <i>Eimeria kriegsmanni</i> . <i>Acta Parasitologica</i> , 2014, 59, 337-42.	1.1	3
79	Identification and genetic characterization of Piroplasmida and Anaplasmataceae agents in feeding <i>Amblyomma variegatum</i> ticks from Benin. <i>Veterinary Parasitology: Regional Studies and Reports</i> , 2018, 14, 137-143.	0.5	3
80	A Survey of Tick Infestation and Tick-Borne Piroplasm Infection of Cattle in Oudalan and SÃ©no Provinces, Northern Burkina Faso. <i>Pathogens</i> , 2022, 11, 31.	2.8	3
81	Adaptation and immunogenicity of <i>Cryptosporidium parvum</i> to immunocompetent mice. <i>Acta Parasitologica</i> , 2014, 59, 189-92.	1.1	2
82	Identification of <i>Haemaphysalis longicornis</i> Genes Differentially Expressed in Response to <i>Babesia microti</i> Infection. <i>Pathogens</i> , 2020, 9, 378.	2.8	2
83	Effect of vegetable oils on the experimental infection of mice with <i>Trypanosoma congolense</i> . <i>Experimental Parasitology</i> , 2020, 210, 107845.	1.2	2
84	Effect of Î±-tocopheryloxy acetic acid, a vitamin E derivative mitocan, on the experimental infection of mice with <i>Plasmodium yoelii</i> . <i>Malaria Journal</i> , 2021, 20, 280.	2.3	2
85	Data from expressed sequence tags from the organs and embryos of parthenogenetic <i>Haemaphysalis longicornis</i> . <i>BMC Research Notes</i> , 2021, 14, 326.	1.4	2
86	Molecular Identification of Selected Tick-Borne Protozoan and Bacterial Pathogens in Thoroughbred Racehorses in Cavite, Philippines. <i>Pathogens</i> , 2021, 10, 1318.	2.8	2
87	Protozoan and Rickettsial Pathogens in Ticks Collected from Infested Cattle from Turkey. <i>Pathogens</i> , 2022, 11, 500.	2.8	2
88	Cryopreservation of canine spermatozoa using a skim milk-based extender and a short equilibration time. <i>Reproduction in Domestic Animals</i> , 2020, 55, 1548-1553.	1.4	1
89	Porin Expression Profiles in <i>Haemaphysalis longicornis</i> Infected With <i>Babesia microti</i> . <i>Frontiers in Physiology</i> , 2020, 11, 502.	2.8	1
90	Molecular detection of <i>Borrelia burgdorferi</i> (sensu lato) and <i>Rickettsia</i> spp. in hard ticks distributed in Tokachi District, eastern Hokkaido, Japan. <i>Current Research in Parasitology and Vector-borne Diseases</i> , 2021, 1, 100059.	1.9	1

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91	Basic studies on tick oogenesis for elucidation of molecular mechanisms underlying transovarial transmission of protozoan parasites in hard ticks. <i>Medical Entomology and Zoology</i> , 2019, 70, 137-140.	0.1	0