Michael A Riehle

List of Publications by Year
in descending order

55 papers	7,898 citations	172457 29 h-index	189892 50 g-index
56 all docs	56 docs citations	56 times ranked	16393 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Highly evolvable malaria vectors: The genomes of 16 <i>Anopheles</i> mosquitoes. Science, 2015, 347, 1258522.	12.6	492
3	Neuropeptides and Peptide Hormones inAnopheles gambiae. Science, 2002, 298, 172-175.	12.6	263
4	Genome Sequence of the Tsetse Fly (<i>Glossina morsitans</i>): Vector of African Trypanosomiasis. Science, 2014, 344, 380-386.	12.6	254
5	Insulin stimulates ecdysteroid production through a conserved signaling cascade in the mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 1999, 29, 855-860.	2.7	139
6	Activation of Akt Signaling Reduces the Prevalence and Intensity of Malaria Parasite Infection and Lifespan in Anopheles stephensi Mosquitoes. PLoS Pathogens, 2010, 6, e1001003.	4.7	138
7	Using bacteria to express and display anti-Plasmodium molecules in the mosquito midgut. International Journal for Parasitology, 2007, 37, 595-603.	3.1	130
8	Genome analysis of a major urban malaria vector mosquito, Anopheles stephensi. Genome Biology, 2014, 15, 459.	8.8	119
9	Molecular characterization of insulin-like peptides in the yellow fever mosquito, Aedes aegypti: Expression, cellular localization, and phylogeny. Peptides, 2006, 27, 2547-2560.	2.4	109
10	Response of Plasmodium refractory and susceptible strains of Anopheles gambiae to inoculated Sephadex beads. Developmental and Comparative Immunology, 1994, 18, 369-375.	2.3	104
11	Insulin receptor expression during development and a reproductive cycle in the ovary of the mosquito Aedes aegypti. Cell and Tissue Research, 2002, 308, 409-420.	2.9	94
12	Using bacteria to express and display anti-parasite molecules in mosquitoes: current and future strategies. Insect Biochemistry and Molecular Biology, 2005, 35, 699-707.	2.7	91
13	The impact of larval and adult dietary restriction on lifespan, reproduction and growth in the mosquito Aedes aegypti. Experimental Gerontology, 2010, 45, 685-690.	2.8	82
14	Molecular characterization of insulin-like peptide genes and their expression in the African malaria mosquito, Anopheles gambiae. Insect Molecular Biology, 2004, 13, 305-315.	2.0	79
15	Effect of Mosquito Age and Reproductive Status on Melanization of Sephadex Beads in Plasmodium-Refractory and -Susceptible Strains of Anopheles gambiae. Journal of Invertebrate Pathology, 1995, 66, 11-17.	3.2	76
16	Insulin-Like Peptides. , 2012, , 63-92.		72
17	Correction: Activation of Akt Signaling Reduces the Prevalence and Intensity of Malaria Parasite Infection and Lifespan in Anopheles stephensi Mosquitoes. PLoS Pathogens, 2010, 6, 10.1371/annotation/738ac91f-8c41-4bf5-9a39-bddf0b7.	4.7	65
18	Towards genetic manipulation of wild mosquito populations to combat malaria: advances and challenges. Journal of Experimental Biology, 2003, 206, 3809-3816.	1.7	61

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19	Ingested Human Insulin Inhibits the Mosquito NF-ÎºB-Dependent Immune Response to Plasmodium falciparum. Infection and Immunity, 2012, 80, 2141-2149.	2.2	60
20	The insulin signaling cascade from nematodes to mammals: Insights into innate immunity of Anopheles mosquitoes to malaria parasite infection. Developmental and Comparative Immunology, 2007, 31, 647-656.	2.3	58
21	Insulin-like peptides in the mosquito Anopheles stephensi: Identification and expression in response to diet and infection with Plasmodium falciparum. General and Comparative Endocrinology, 2011, 173, 303-312.	1.8	55
22	Sustained Activation of Akt Elicits Mitochondrial Dysfunction to Block Plasmodium falciparum Infection in the Mosquito Host. PLoS Pathogens, 2013, 9, e1003180.	4.7	52
23	Molecular analysis of the serine/threonine kinase Akt and its expression in the mosquito Aedes aegypti. Insect Molecular Biology, 2003, 12, 225-232.	2.0	44
24	Overexpression of phosphatase and tensin homolog improves fitness and decreases Plasmodium falciparum development in Anopheles stephensi. Microbes and Infection, 2013, 15, 775-787.	1.9	41
25	The Putative AKH Receptor of the Tobacco Hornworm,<i>Manduca sexta</i>, and Its Expression. Journal of Insect Science, 2011, 11, 1-20.	1.5	40
26	Effects of ingested vertebrate-derived factors on insect immune responses. Current Opinion in Insect Science, 2014, 3, 1-5.	4.4	36
27	Human IGF1 Regulates Midgut Oxidative Stress and Epithelial Homeostasis to Balance Lifespan and Plasmodium falciparum resistance in Anopheles stephensi. PLoS Pathogens, 2014, 10, e1004231.	4.7	34
28	Plasmodium falciparum suppresses the host immune response by inducing the synthesis of insulin-like peptides (ILPs) in the mosquito Anopheles stephensi. Developmental and Comparative Immunology, 2015, 53, 134-144.	2.3	33
29	Ixodes scapularis (Acari: Ixodidae): Status and Changes in Prevalence and Distribution in Wisconsin Between 1981 and 1994 Measured by Deer Surveillance. Journal of Medical Entomology, 1996, 33, 933-938.	1.8	31
30	Characterization of the <I>AeaHP</I> Gene and its Expression in the Mosquito <I>Aedes aegypti</I> (Diptera: Culicidae). Journal of Medical Entomology, 2002, 39, 331-342.	1.8	30
31	Expression of a mutated phospholipase A2in transgenic Aedes fluviatilis mosquitoes impacts Plasmodium gallinaceum development. Insect Molecular Biology, 2008, 17, 175-183.	2.0	29
32	Aging Field Collected Aedes aegypti to Determine Their Capacity for Dengue Transmission in the Southwestern United States. PLoS ONE, 2012, 7, e46946.	2.5	29
33	Inhibition of JNK signaling in the Asian malaria vector Anopheles stephensi extends mosquito longevity and improves resistance to Plasmodium falciparum infection. PLoS Pathogens, 2018, 14, e1007418.	4.7	25
34	Increased Akt signaling in the mosquito fat body increases adult survivorship. FASEB Journal, 2015, 29, 1404-1413.	0.5	24
35	<i>Aedes aegypti</i>(Diptera: Culicidae) Longevity and Differential Emergence of Dengue Fever in Two Cities in Sonora, Mexico. Journal of Medical Entomology, 2017, 54, 204-211.	1.8	22
36	Manipulating insulin signaling to enhance mosquito reproduction. BMC Physiology, 2009, 9, 15.	3.6	20

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37	Two insulin-like peptides differentially regulate malaria parasite infection in the mosquito through effects on intermediary metabolism. Biochemical Journal, 2016, 473, 3487-3503.	3.7	18
38	A Factor Preventing Melanization of Sephadex CM C-25 Beads inPlasmodium-Susceptible and RefractoryAnopheles gambiae. Experimental Parasitology, 1998, 90, 34-41.	1.2	16
39	Resveratrol Fails to Extend Life Span in the Mosquito<i>Anopheles stephensi</i>. Rejuvenation Research, 2015, 18, 473-478.	1.8	15
40	Utilizing rabbit immunoglobulin G protein for mark-capture studies on the desert subterranean termite, Heterotermes aureus (Snyder). Insectes Sociaux, 2010, 57, 147-155.	1.2	14
41	Identification and characterization of the catalytic subunit of phosphatidylinositol 3-kinase in the yellow fever mosquito Aedes aegypti. Insect Biochemistry and Molecular Biology, 2008, 38, 932-939.	2.7	13
42	Size as a Proxy for Survival in <i>Aedes aegypti</i> (Diptera: Culicidae) Mosquitoes. Journal of Medical Entomology, 2020, 57, 1228-1238.	1.8	12
43	Vertical Transmission of Zika Virus in Aedes aegypti Produces Potentially Infectious Progeny. American Journal of Tropical Medicine and Hygiene, 2020, 103, 876-883.	1.4	12
44	Increased Akt signaling in the fat body of Anopheles stephensi extends lifespan and increases lifetime fecundity through modulation of insulin-like peptides. Journal of Insect Physiology, 2019, 118, 103932.	2.0	10
45	Characterization of Phosphatase and Tensin Homolog expression in the mosquito Aedes aegypti: Six splice variants with developmental and tissue specificity. Insect Molecular Biology, 2007, 16, 277-286.	2.0	9
46	Midgut Mitochondrial Function as a Gatekeeper for Malaria Parasite Infection and Development in the Mosquito Host. Frontiers in Cellular and Infection Microbiology, 2020, 10, 593159.	3.9	9
47	Genetic Variation in Rhipicephalus sanguineus s.l. Ticks across Arizona. International Journal of Environmental Research and Public Health, 2022, 19, 4223.	2.6	7
48	Assessing Near-Infrared Spectroscopy (NIRS) for Evaluation of Aedes aegypti Population Age Structure. Insects, 2022, 13, 360.	2.2	7
49	Overexpression of Activated AMPK in the Anopheles stephensi Midgut Impacts Mosquito Metabolism, Reproduction and Plasmodium Resistance. Genes, 2021, 12, 119.	2.4	6
50	Insulin-Like Peptides. , 2013, , 267-275.		5
51	Increased insulin signaling in the Anopheles stephensi fat body regulates metabolism and enhances the host response to both bacterial challenge and Plasmodium falciparum infection. Insect Biochemistry and Molecular Biology, 2021, 139, 103669.	2.7	5
52	Conservation and Convergence of Immune Signaling Pathways With Mitochondrial Regulation in Vector Arthropod Physiology. , 2017, , 15-33.		4
53	Activation of Anopheles stephensi Pantothenate Kinase and Coenzyme A Biosynthesis Reduces Infection with Diverse Plasmodium Species in the Mosquito Host. Biomolecules, 2021, 11, 807.	4.0	4
54	Antipathogen effector molecules: current and future strategies.. , 2014, , 168-187.		0

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55	Differential Emergence of Dengue in the Arizona-Sonora Desert Region: Understanding the Role of Social and Environmental Factors. ISEE Conference Abstracts, 2014, 2014, 3011.	0.0	0