

# Michael A Riehle

## List of Publications by Year in descending order

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55  
papers

7,898  
citations

172386

29  
h-index

189801

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). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Highly evolvable malaria vectors: The genomes of 16 <i>Anopheles</i> mosquitoes. <i>Science</i> , 2015, 347, 1258522.	6.0	492
3	Neuropeptides and Peptide Hormones in <i>Anopheles gambiae</i> . <i>Science</i> , 2002, 298, 172-175.	6.0	263
4	Genome Sequence of the Tsetse Fly ( <i>Glossina morsitans</i> ): Vector of African Trypanosomiasis. <i>Science</i> , 2014, 344, 380-386.	6.0	254
5	Insulin stimulates ecdysteroid production through a conserved signaling cascade in the mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 1999, 29, 855-860.	1.2	139
6	Activation of Akt Signaling Reduces the Prevalence and Intensity of Malaria Parasite Infection and Lifespan in <i>Anopheles stephensi</i> Mosquitoes. <i>PLoS Pathogens</i> , 2010, 6, e1001003.	2.1	138
7	Using bacteria to express and display anti-Plasmodium molecules in the mosquito midgut. <i>International Journal for Parasitology</i> , 2007, 37, 595-603.	1.3	130
8	Genome analysis of a major urban malaria vector mosquito, <i>Anopheles stephensi</i> . <i>Genome Biology</i> , 2014, 15, 459.	3.8	119
9	Molecular characterization of insulin-like peptides in the yellow fever mosquito, <i>Aedes aegypti</i> : Expression, cellular localization, and phylogeny. <i>Peptides</i> , 2006, 27, 2547-2560.	1.2	109
10	Response of Plasmodium refractory and susceptible strains of <i>Anopheles gambiae</i> to inoculated Sephadex beads. <i>Developmental and Comparative Immunology</i> , 1994, 18, 369-375.	1.0	104
11	Insulin receptor expression during development and a reproductive cycle in the ovary of the mosquito <i>Aedes aegypti</i> . <i>Cell and Tissue Research</i> , 2002, 308, 409-420.	1.5	94
12	Using bacteria to express and display anti-parasite molecules in mosquitoes: current and future strategies. <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 699-707.	1.2	91
13	The impact of larval and adult dietary restriction on lifespan, reproduction and growth in the mosquito <i>Aedes aegypti</i> . <i>Experimental Gerontology</i> , 2010, 45, 685-690.	1.2	82
14	Molecular characterization of insulin-like peptide genes and their expression in the African malaria mosquito, <i>Anopheles gambiae</i> . <i>Insect Molecular Biology</i> , 2004, 13, 305-315.	1.0	79
15	Effect of Mosquito Age and Reproductive Status on Melanization of Sephadex Beads in Plasmodium-Refractory and -Susceptible Strains of <i>Anopheles gambiae</i> . <i>Journal of Invertebrate Pathology</i> , 1995, 66, 11-17.	1.5	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 <i>Anopheles stephensi</i> Mosquitoes. <i>PLoS Pathogens</i> , 2010, 6, 10.1371/annotation/738ac91f-8c41-4bf5-9a39-bddf0b7.	2.1	65
18	Towards genetic manipulation of wild mosquito populations to combat malaria: advances and challenges. <i>Journal of Experimental Biology</i> , 2003, 206, 3809-3816.	0.8	61

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19	Ingested Human Insulin Inhibits the Mosquito NF- $\kappa$ B-Dependent Immune Response to Plasmodium falciparum. <i>Infection and Immunity</i> , 2012, 80, 2141-2149.	1.0	60
20	The insulin signaling cascade from nematodes to mammals: Insights into innate immunity of Anopheles mosquitoes to malaria parasite infection. <i>Developmental and Comparative Immunology</i> , 2007, 31, 647-656.	1.0	58
21	Insulin-like peptides in the mosquito <i>Anopheles stephensi</i> : Identification and expression in response to diet and infection with <i>Plasmodium falciparum</i> . <i>General and Comparative Endocrinology</i> , 2011, 173, 303-312.	0.8	55
22	Sustained Activation of Akt Elicits Mitochondrial Dysfunction to Block <i>Plasmodium falciparum</i> Infection in the Mosquito Host. <i>PLoS Pathogens</i> , 2013, 9, e1003180.	2.1	52
23	Molecular analysis of the serine/threonine kinase Akt and its expression in the mosquito <i>Aedes aegypti</i> . <i>Insect Molecular Biology</i> , 2003, 12, 225-232.	1.0	44
24	Overexpression of phosphatase and tensin homolog improves fitness and decreases <i>Plasmodium falciparum</i> development in <i>Anopheles stephensi</i> . <i>Microbes and Infection</i> , 2013, 15, 775-787.	1.0	41
25	The Putative AKH Receptor of the Tobacco Hornworm, <i>Manduca sexta</i> , and Its Expression. <i>Journal of Insect Science</i> , 2011, 11, 1-20.	0.6	40
26	Effects of ingested vertebrate-derived factors on insect immune responses. <i>Current Opinion in Insect Science</i> , 2014, 3, 1-5.	2.2	36
27	Human IGF1 Regulates Midgut Oxidative Stress and Epithelial Homeostasis to Balance Lifespan and <i>Plasmodium falciparum</i> resistance in <i>Anopheles stephensi</i> . <i>PLoS Pathogens</i> , 2014, 10, e1004231.	2.1	34
28	<i>Plasmodium falciparum</i> suppresses the host immune response by inducing the synthesis of insulin-like peptides (ILPs) in the mosquito <i>Anopheles stephensi</i> . <i>Developmental and Comparative Immunology</i> , 2015, 53, 134-144.	1.0	33
29	<i>Ixodes scapularis</i> (Acari: Ixodidae): Status and Changes in Prevalence and Distribution in Wisconsin Between 1981 and 1994 Measured by Deer Surveillance. <i>Journal of Medical Entomology</i> , 1996, 33, 933-938.	0.9	31
30	Characterization of the <i>Aedes aegypti</i> Gene and its Expression in the Mosquito <i>Aedes aegypti</i> (Diptera: Culicidae). <i>Journal of Medical Entomology</i> , 2002, 39, 331-342.	0.9	30
31	Expression of a mutated phospholipase A2 in transgenic <i>Aedes fluviatilis</i> mosquitoes impacts <i>Plasmodium gallinaceum</i> development. <i>Insect Molecular Biology</i> , 2008, 17, 175-183.	1.0	29
32	Aging Field Collected <i>Aedes aegypti</i> to Determine Their Capacity for Dengue Transmission in the Southwestern United States. <i>PLoS ONE</i> , 2012, 7, e46946.	1.1	29
33	Inhibition of JNK signaling in the Asian malaria vector <i>Anopheles stephensi</i> extends mosquito longevity and improves resistance to <i>Plasmodium falciparum</i> infection. <i>PLoS Pathogens</i> , 2018, 14, e1007418.	2.1	25
34	Increased Akt signaling in the mosquito fat body increases adult survivorship. <i>FASEB Journal</i> , 2015, 29, 1404-1413.	0.2	24
35	<i>Aedes aegypti</i> (Diptera: Culicidae) Longevity and Differential Emergence of Dengue Fever in Two Cities in Sonora, Mexico. <i>Journal of Medical Entomology</i> , 2017, 54, 204-211.	0.9	22
36	Manipulating insulin signaling to enhance mosquito reproduction. <i>BMC Physiology</i> , 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. <i>Biochemical Journal</i> , 2016, 473, 3487-3503.	1.7	18
38	A Factor Preventing Melanization of Sephadex CM C-25 Beads in <i>Plasmodium</i> -Susceptible and Refractory <i>Anopheles gambiae</i> . <i>Experimental Parasitology</i> , 1998, 90, 34-41.	0.5	16
39	Resveratrol Fails to Extend Life Span in the Mosquito <i>Anopheles stephensi</i> . <i>Rejuvenation Research</i> , 2015, 18, 473-478.	0.9	15
40	Utilizing rabbit immunoglobulin G protein for mark-capture studies on the desert subterranean termite, <i>Heterotermes aureus</i> (Snyder). <i>Insectes Sociaux</i> , 2010, 57, 147-155.	0.7	14
41	Identification and characterization of the catalytic subunit of phosphatidylinositol 3-kinase in the yellow fever mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2008, 38, 932-939.	1.2	13
42	Size as a Proxy for Survival in <i>Aedes aegypti</i> (Diptera: Culicidae) Mosquitoes. <i>Journal of Medical Entomology</i> , 2020, 57, 1228-1238.	0.9	12
43	Vertical Transmission of Zika Virus in <i>Aedes aegypti</i> Produces Potentially Infectious Progeny. <i>American Journal of Tropical Medicine and Hygiene</i> , 2020, 103, 876-883.	0.6	12
44	Increased Akt signaling in the fat body of <i>Anopheles stephensi</i> extends lifespan and increases lifetime fecundity through modulation of insulin-like peptides. <i>Journal of Insect Physiology</i> , 2019, 118, 103932.	0.9	10
45	Characterization of Phosphatase and Tensin Homolog expression in the mosquito <i>Aedes aegypti</i> : Six splice variants with developmental and tissue specificity. <i>Insect Molecular Biology</i> , 2007, 16, 277-286.	1.0	9
46	Midgut Mitochondrial Function as a Gatekeeper for Malaria Parasite Infection and Development in the Mosquito Host. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 593159.	1.8	9
47	Genetic Variation in <i>Rhipicephalus sanguineus</i> s.l. Ticks across Arizona. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 4223.	1.2	7
48	Assessing Near-Infrared Spectroscopy (NIRS) for Evaluation of <i>Aedes aegypti</i> Population Age Structure. <i>Insects</i> , 2022, 13, 360.	1.0	7
49	Overexpression of Activated AMPK in the <i>Anopheles stephensi</i> Midgut Impacts Mosquito Metabolism, Reproduction and <i>Plasmodium</i> Resistance. <i>Genes</i> , 2021, 12, 119.	1.0	6
50	Insulin-Like Peptides. , 2013, , 267-275.		5
51	Increased insulin signaling in the <i>Anopheles stephensi</i> fat body regulates metabolism and enhances the host response to both bacterial challenge and <i>Plasmodium falciparum</i> infection. <i>Insect Biochemistry and Molecular Biology</i> , 2021, 139, 103669.	1.2	5
52	Conservation and Convergence of Immune Signaling Pathways With Mitochondrial Regulation in Vector Arthropod Physiology. , 2017, , 15-33.		4
53	Activation of <i>Anopheles stephensi</i> Pantothenate Kinase and Coenzyme A Biosynthesis Reduces Infection with Diverse <i>Plasmodium</i> Species in the Mosquito Host. <i>Biomolecules</i> , 2021, 11, 807.	1.8	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