

# Peter M Piermarini

## List of Publications by Year in descending order

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73  
papers

4,405  
citations

201575

27  
h-index

114418

63  
g-index

77  
all docs

77  
docs citations

77  
times ranked

3261  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Molecular Physiology and Toxicology of Inward Rectifier Potassium Channels in Insects. Annual Review of Entomology, 2022, 67, 125-142.	5.7	4
2	Sequence analysis and function of mosquito aeCCC2 and Drosophila Ncc83 orthologs. Insect Biochemistry and Molecular Biology, 2022, 143, 103729.	1.2	2
3	Larvicidal Activity of Carbon Black against the Yellow Fever Mosquito Aedes aegypti. Insects, 2022, 13, 307.	1.0	3
4	Further SAR on the (Phenylsulfonyl)piperazine Scaffold as Inhibitors of the <i>Aedes aegypti</i> Kir1 ( <i>Ae</i> Kir) Channel and Larvicides. ChemMedChem, 2021, 16, 319-327.	1.6	3
5	Stop the crop: Insights into the insecticidal mode of action of cinnamodial against mosquitoes. Pesticide Biochemistry and Physiology, 2021, 171, 104743.	1.6	1
6	Semi-synthetic cinnamodial analogues: Structural insights into the insecticidal and antifeedant activities of drimane sesquiterpenes against the mosquito Aedes aegypti. PLoS Neglected Tropical Diseases, 2020, 14, e0008073.	1.3	6
7	Functional analysis of mosquito and <i>Drosophila</i> Na <sup>+</sup> + <sup>-</sup> dependent cation-chloride cotransporters. FASEB Journal, 2020, 34, 1-1.	0.2	0
8	Insecticidal and Antifeedant Activities of Malagasy Medicinal Plant (Cinnamosma sp.) Extracts and Drimane-Type Sesquiterpenes against Aedes aegypti Mosquitoes. Insects, 2019, 10, 373.	1.0	17
9	Morphological discontinuous variation and disparity in Lutzomyia (Tricholateralis) cruciata Coquillett, 1907 are not related to contrasting environmental factors in two biogeographical provinces. Zoomorphology, 2019, 138, 335-348.	0.4	0
10	Can urban greening increase vector abundance in cities? The impact of mowing, local vegetation, and landscape composition on adult mosquito populations. Urban Ecosystems, 2019, 22, 827-839.	1.1	24
11	Heterologous Expression of Aedes aegypti Cation Chloride Cotransporter 2 (aeCCC2) in Xenopus laevis Oocytes Induces an Enigmatic Na <sup>+</sup> /Li <sup>+</sup> Conductance. Insects, 2019, 10, 71.	1.0	9
12	Discovery and Characterization of 2-Nitro-5-(4-(phenylsulfonyl)piperazin-1-yl)-N-(pyridin-4-ylmethyl)anilines as Novel Inhibitors of the <i>Aedes aegypti</i> Kir1 ( <i>Ae</i> Kir1) Channel. ACS Infectious Diseases, 2019, 5, 917-931.	1.8	4
13	Malpighian tubules of <i>Trichoplusia ni</i> : recycling ions via gap junctions and switching between secretion and reabsorption of Na <sup>+</sup> and K <sup>+</sup> in the distal ileac plexus. Journal of Experimental Biology, 2018, 221, .	0.8	16
14	Analysis of the Aedes albopictus C6/36 genome provides insight into cell line utility for viral propagation. GigaScience, 2018, 7, 1-13.	3.3	51
15	Pharmacological Inhibition of Inward Rectifier Potassium Channels Induces Lethality in Larval Aedes aegypti. Insects, 2018, 9, 163.	1.0	4
16	Inward rectifier potassium (Kir) channels in the soybean aphid Aphis glycines: Functional characterization, pharmacology, and toxicology. Journal of Insect Physiology, 2018, 110, 57-65.	0.9	9
17	Molecular mechanisms of bi-directional ion transport in the Malpighian tubules of a lepidopteran crop pest, Trichoplusia ni. Journal of Insect Physiology, 2018, 109, 55-68.	0.9	19
18	A natural agonist of mosquito TRPA1 from the medicinal plant Cinnamosma fragrans that is toxic, antifeedant, and repellent to the yellow fever mosquito Aedes aegypti. PLoS Neglected Tropical Diseases, 2018, 12, e0006265.	1.3	23

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19	Morphology variation of <i>Lutzomyia cruciata</i> eggs (Diptera: Psychodidae: Phlebotominae) in southern Mexico. <i>Zootaxa</i> , 2017, 4258, 477.	0.2	4
20	The diapause program impacts renal excretion and molecular expression of aquaporins in the northern house mosquito, <i>Culex pipiens</i> . <i>Journal of Insect Physiology</i> , 2017, 98, 141-148.	0.9	27
21	Differential expression of putative sodium-dependent cation-chloride cotransporters in <i>Aedes aegypti</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 214, 40-49.	0.8	13
22	Physiological characterization and regulation of the contractile properties of the mosquito ventral diverticulum (crop). <i>Journal of Insect Physiology</i> , 2017, 103, 98-106.	0.9	13
23	Dynamic expression of genes encoding subunits of inward rectifier potassium (Kir) channels in the yellow fever mosquito <i>Aedes aegypti</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2017, 204, 35-44.	0.7	15
24	Molecular expression of aquaporin mRNAs in the northern house mosquito, <i>Culex pipiens</i> . <i>Journal of Insect Physiology</i> , 2017, 96, 35-44.	0.9	13
25	Descriptions of the Immature Stages of <i>Lutzomyia (Tricholateralis) cruciata</i> (Coquillett) (Diptera: Tj ETQq1 1 0.784314 rgBT /Overl	0.5	5
26	RNA-Seq Comparison of Larval and Adult Malpighian Tubules of the Yellow Fever Mosquito <i>Aedes aegypti</i> Reveals Life Stage-Specific Changes in Renal Function. <i>Frontiers in Physiology</i> , 2017, 8, 283.	1.3	33
27	Malpighian Tubules as Novel Targets for Mosquito Control. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 111.	1.2	34
28	A Blood Meal Enhances Innexin mRNA Expression in the Midgut, Malpighian Tubules, and Ovaries of the Yellow Fever Mosquito <i>Aedes aegypti</i> . <i>Insects</i> , 2017, 8, 122.	1.0	9
29	Expression of Sodium-Dependent Cation-Chloride Cotransporters in Adult and Larval Osmoregulatory Tissues of <i>Aedes aegypti</i> Mosquitoes. <i>FASEB Journal</i> , 2017, 31, 889.9.	0.2	0
30	An insecticide resistance-breaking mosquitocide targeting inward rectifier potassium channels in vectors of Zika virus and malaria. <i>Scientific Reports</i> , 2016, 6, 36954.	1.6	55
31	A <i>de novo</i> transcriptome of the Malpighian tubules in non-blood-fed and blood-fed Asian tiger mosquitoes <i>Aedes albopictus</i> : insights into diuresis, detoxification, and blood meal processing. <i>PeerJ</i> , 2016, 4, e1784.	0.9	49
32	Pharmacological and Genetic Evidence for Gap Junctions as Potential New Insecticide Targets in the Yellow Fever Mosquito, <i>Aedes aegypti</i> . <i>PLoS ONE</i> , 2015, 10, e0137084.	1.1	19
33	The molecular and immunochemical expression of innexins in the yellow fever mosquito, <i>Aedes aegypti</i> : Insights into putative life stage- and tissue-specific functions of gap junctions. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 183, 11-21.	0.7	27
34	Localization and role of inward rectifier K <sup>+</sup> channels in Malpighian tubules of the yellow fever mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2015, 67, 59-73.	1.2	27
35	Targeting renal epithelial channels for the control of insect vectors. <i>Tissue Barriers</i> , 2015, 3, e1081861.	1.6	20
36	Non-traditional Models: The Molecular Physiology of Sodium and Water Transport in Mosquito Malpighian Tubules. , 2015, , 255-278.		2

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37	The excretion of NaCl and KCl loads in mosquitoes. 1. Control data. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R837-R849.	0.9	20
38	Transcriptomic Evidence for a Dramatic Functional Transition of the Malpighian Tubules after a Blood Meal in the Asian Tiger Mosquito <i>Aedes albopictus</i> . PLoS Neglected Tropical Diseases, 2014, 8, e2929.	1.3	37
39	Excretion of NaCl and KCl loads in mosquitoes. 2. Effects of the small molecule Kir channel modulator VU573 and its inactive analog VU342. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R850-R861.	0.9	19
40	Identification of life-stage and tissue-specific splice variants of an inward rectifying potassium (Kir) channel in the yellow fever mosquito <i>Aedes aegypti</i> . Insect Biochemistry and Molecular Biology, 2014, 48, 91-99.	1.2	17
41	Evidence for intercellular communication in mosquito renal tubules: A putative role of gap junctions in coordinating and regulating the rapid diuretic effects of neuropeptides. General and Comparative Endocrinology, 2014, 203, 43-48.	0.8	14
42	Molecular identification and expression analysis of a diapause hormone receptor in the corn earworm, <i>Helicoverpa zea</i> . Peptides, 2014, 53, 250-257.	1.2	32
43	Molecular and functional characterization of <i>Anopheles gambiae</i> inward rectifier potassium (Kir1) channels: A novel role in egg production. Insect Biochemistry and Molecular Biology, 2014, 51, 10-19.	1.2	27
44	Pharmacological Validation of an Inward-Rectifier Potassium (Kir) Channel as an Insecticide Target in the Yellow Fever Mosquito <i>Aedes aegypti</i> . PLoS ONE, 2014, 9, e100700.	1.1	33
45	Discovery and Characterization of a Potent and Selective Inhibitor of <i>Aedes aegypti</i> Inward Rectifier Potassium Channels. PLoS ONE, 2014, 9, e110772.	1.1	40
46	Molecular characterization of genes encoding inward rectifier potassium (Kir) channels in the bed bug ( <i>Cimex lectularius</i> ). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2013, 164, 275-279.	0.7	16
47	Cloning and functional characterization of inward-rectifying potassium (Kir) channels from Malpighian tubules of the mosquito <i>Aedes aegypti</i> . Insect Biochemistry and Molecular Biology, 2013, 43, 75-90.	1.2	47
48	Roles of PKC and phospho- $\epsilon$ -adducin in transepithelial fluid secretion by Malpighian tubules of the yellow fever mosquito. Tissue Barriers, 2013, 1, e23120.	1.6	6
49	Eliciting Renal Failure in Mosquitoes with a Small-Molecule Inhibitor of Inward-Rectifying Potassium Channels. PLoS ONE, 2013, 8, e64905.	1.1	57
50	Slc4-like anion transporters of the larval mosquito alimentary canal. Journal of Insect Physiology, 2012, 58, 551-562.	0.9	21
51	Introduction to the Special Issue on Insect Epithelial Transport. Journal of Insect Physiology, 2012, 58, 427.	0.9	0
52	Transcellular and paracellular pathways of transepithelial fluid secretion in Malpighian (renal) tubules of the yellow fever mosquito <i>Aedes aegypti</i> . Acta Physiologica, 2011, 202, 387-407.	1.8	92
53	Role of an apical K,Cl cotransporter in urine formation by renal tubules of the yellow fever mosquito ( <i>Aedes aegypti</i> ). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R1318-R1337.	0.9	33
54	A SLC4-like anion exchanger from renal tubules of the mosquito ( <i>Aedes aegypti</i> ): evidence for a novel role of stellate cells in diuretic fluid secretion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R642-R660.	0.9	42

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55	The single kinin receptor signals to separate and independent physiological pathways in Malpighian tubules of the yellow fever mosquito. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R612-R622.	0.9	31
56	NHE8 is an intracellular cation/H <sup>+</sup> exchanger in renal tubules of the yellow fever mosquito <i>Aedes aegypti</i> . <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F730-F750.	1.3	50
57	Signaling to the apical membrane and to the paracellular pathway: changes in the cytosolic proteome of <i>Aedes</i> Malpighian tubules. <i>Journal of Experimental Biology</i> , 2009, 212, 329-340.	0.8	24
58	Gap junctions in Malpighian tubules of <i>Aedes aegypti</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 409-422.	0.8	39
59	Osmotic and Ionic Regulation in Insects. , 2008, , 231-293.		4
60	Evidence against a Direct Interaction between Intracellular Carbonic Anhydrase II and Pure C-terminal Domains of SLC4 Bicarbonate Transporters. <i>Journal of Biological Chemistry</i> , 2007, 282, 1409-1421.	1.6	69
61	Cloning and characterization of an electrogenic Na/HCO <sub>3</sub> <sup>-</sup> cotransporter from the squid giant fiber lobe. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 292, C2032-C2045.	2.1	23
62	Neuronal nitric oxide synthase in the gill of the killifish, <i>Fundulus heteroclitus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2006, 144, 510-519.	0.7	60
63	The accumulation of methylamine counteracting solutes in elasmobranchs with differing levels of urea: a comparison of marine and freshwater species. <i>Journal of Experimental Biology</i> , 2006, 209, 860-870.	0.8	67
64	Effect of Human Carbonic Anhydrase II on the Activity of the Human Electrogenic Na/HCO <sub>3</sub> Cotransporter NBCe1-A in <i>Xenopus</i> Oocytes. <i>Journal of Biological Chemistry</i> , 2006, 281, 19241-19250.	1.6	77
65	COX2 in a euryhaline teleost, <i>Fundulus heteroclitus</i> : primary sequence, distribution, localization, and potential function in gills during salinity acclimation. <i>Journal of Experimental Biology</i> , 2006, 209, 1696-1708.	0.8	38
66	Cloning of a unique electrogenic bicarbonate transporter from the squid giant fiber lobe. <i>FASEB Journal</i> , 2006, 20, A842.	0.2	0
67	Cloning and characterization of cDNAs encoding steroidogenic acute regulatory protein from freshwater stingrays ( <i>Potamotrygon</i> spp.). <i>Journal of Molecular Endocrinology</i> , 2005, 35, 557-569.	1.1	22
68	The Multifunctional Fish Gill: Dominant Site of Gas Exchange, Osmoregulation, Acid-Base Regulation, and Excretion of Nitrogenous Waste. <i>Physiological Reviews</i> , 2005, 85, 97-177.	13.1	2,180
69	Pendrin immunoreactivity in the gill epithelium of a euryhaline elasmobranch. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R983-R992.	0.9	94
70	Immunochemical analysis of the vacuolar proton-ATPase B-subunit in the gills of a euryhaline stingray ( <i>Dasyatis sabina</i> ): effects of salinity and relation to Na <sup>+</sup> /K <sup>+</sup> -ATPase. <i>Journal of Experimental Biology</i> , 2001, 204, 3251-3259.	0.8	108
71	Ionic transport in the fish gill epithelium. , 1999, 283, 641-652.		193
72	Ionic transport in the fish gill epithelium. <i>The Journal of Experimental Zoology</i> , 1999, 283, 641-652.	1.4	132

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73	Osmoregulation of the Atlantic Stingray ( <i>Dasyatis sabina</i> ) from the Freshwater Lake Jesup of the St. Johns River, Florida. <i>Physiological Zoology</i> , 1998, 71, 553-560.	1.5	78