

# Peter M Piermarini

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

73  
papers

3,508  
citations

25  
h-index

59  
g-index

77  
ext. papers

3,938  
ext. citations

4.2  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
73	Sequence analysis and function of mosquito aeCCC2 and Drosophila Ncc83 orthologs.. <i>Insect Biochemistry and Molecular Biology</i> , <b>2022</b> , 143, 103729	4.5	1
72	The Molecular Physiology and Toxicology of Inward Rectifier Potassium Channels in Insects. <i>Annual Review of Entomology</i> , <b>2021</b> ,	21.8	1
71	Further SAR on the (Phenylsulfonyl)piperazine Scaffold as Inhibitors of the Aedes aegypti Kir1 (AeKir) Channel and Larvicides. <i>ChemMedChem</i> , <b>2021</b> , 16, 319-327	3.7	2
70	Stop the crop: Insights into the insecticidal mode of action of cinnamodial against mosquitoes. <i>Pesticide Biochemistry and Physiology</i> , <b>2021</b> , 171, 104743	4.9	1
69	Semi-synthetic cinnamodial analogues: Structural insights into the insecticidal and antifeedant activities of drimane sesquiterpenes against the mosquito Aedes aegypti. <i>PLoS Neglected Tropical Diseases</i> , <b>2020</b> , 14, e0008073	4.8	1
68	Functional analysis of mosquito and Drosophila Na <sup>+</sup> -dependent cation-chloride cotransporters. <i>FASEB Journal</i> , <b>2020</b> , 34, 1-1	0.9	
67	Morphological discontinuous variation and disparity in <i>Lutzomyia (Tricholateralis) cruciata</i> Coquillett, 1907 are not related to contrasting environmental factors in two biogeographical provinces. <i>Zoomorphology</i> , <b>2019</b> , 138, 335-348	1	
66	Can urban greening increase vector abundance in cities? The impact of mowing, local vegetation, and landscape composition on adult mosquito populations. <i>Urban Ecosystems</i> , <b>2019</b> , 22, 827-839	2.8	11
65	Heterologous Expression of Cation Chloride Cotransporter 2 (aeCCC2) in Oocytes Induces an Enigmatic Na <sup>+</sup> /Li <sup>+</sup> Conductance. <i>Insects</i> , <b>2019</b> , 10,	2.8	5
64	Discovery and Characterization of 2-Nitro-5-(4-(phenylsulfonyl)piperazin-1-yl)-N-(pyridin-4-ylmethyl)anilines as Novel Inhibitors of the Aedes aegypti Kir1 ( AeKir1) Channel. <i>ACS Infectious Diseases</i> , <b>2019</b> , 5, 917-931	5.5	3
63	Insecticidal and Antifeedant Activities of Malagasy Medicinal Plant ( sp.) Extracts and Drimane-Type Sesquiterpenes against Mosquitoes. <i>Insects</i> , <b>2019</b> , 10,	2.8	9
62	Malpighian tubules of : recycling ions via gap junctions and switching between secretion and reabsorption of Na and K in the distal ileac plexus. <i>Journal of Experimental Biology</i> , <b>2018</b> , 221,	3	11
61	Analysis of the Aedes albopictus C6/36 genome provides insight into cell line utility for viral propagation. <i>GigaScience</i> , <b>2018</b> , 7, 1-13	7.6	24
60	Molecular mechanisms of bi-directional ion transport in the Malpighian tubules of a lepidopteran crop pest, <i>Trichoplusia ni</i> . <i>Journal of Insect Physiology</i> , <b>2018</b> , 109, 55-68	2.4	14
59	A natural agonist of mosquito TRPA1 from the medicinal plant <i>Cinnamosma fragrans</i> that is toxic, antifeedant, and repellent to the yellow fever mosquito <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2018</b> , 12, e0006265	4.8	15
58	Pharmacological Inhibition of Inward Rectifier Potassium Channels Induces Lethality in Larval. <i>Insects</i> , <b>2018</b> , 9,	2.8	3
57	Inward rectifier potassium (Kir) channels in the soybean aphid <i>Aphis glycines</i> : Functional characterization, pharmacology, and toxicology. <i>Journal of Insect Physiology</i> , <b>2018</b> , 110, 57-65	2.4	7

56	Morphology variation of <i>Lutzomyia cruciata</i> eggs (Diptera: Psychodidae: Phlebotominae) in southern Mexico. <i>Zootaxa</i> , <b>2017</b> , 4258, 477-489	0.5	4
55	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> , <b>2017</b> , 98, 141-148	2.4	18
54	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> , <b>2017</b> , 214, 40-49	2.6	9
53	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> , <b>2017</b> , 8,	2.8	5
52	Physiological characterization and regulation of the contractile properties of the mosquito ventral diverticulum (crop). <i>Journal of Insect Physiology</i> , <b>2017</b> , 103, 98-106	2.4	8
51	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> , <b>2017</b> , 204, 35-44	2.3	14
50	Molecular expression of aquaporin mRNAs in the northern house mosquito, <i>Culex pipiens</i> . <i>Journal of Insect Physiology</i> , <b>2017</b> , 96, 35-44	2.4	9
49	Descriptions of the Immature Stages of <i>Lutzomyia (Tricholateralis) cruciata</i> (Coquillett) (Diptera: Psychodidae, Phlebotominae). <i>Neotropical Entomology</i> , <b>2017</b> , 46, 66-85	1.2	3
48	RNA-Seq Comparison of Larval and Adult Malpighian Tubules of the Yellow Fever Mosquito Reveals Life Stage-Specific Changes in Renal Function. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 283	4.6	16
47	Malpighian Tubules as Novel Targets for Mosquito Control. <i>International Journal of Environmental Research and Public Health</i> , <b>2017</b> , 14,	4.6	19
46	Expression of Sodium-Dependent Cation-Chloride Cotransporters in Adult and Larval Osmoregulatory Tissues of <i>Aedes aegypti</i> Mosquitoes. <i>FASEB Journal</i> , <b>2017</b> , 31, 889.9	0.9	
45	An insecticide resistance-breaking mosquitocide targeting inward rectifier potassium channels in vectors of Zika virus and malaria. <i>Scientific Reports</i> , <b>2016</b> , 6, 36954	4.9	46
44	A de novo 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> , <b>2016</b> , 4, e1784	3.1	36
43	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> , <b>2015</b> , 183, 11-21	2.3	19
42	Localization and role of inward rectifier K(+) channels in Malpighian tubules of the yellow fever mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2015</b> , 67, 59-73	4.5	25
41	Targeting renal epithelial channels for the control of insect vectors. <i>Tissue Barriers</i> , <b>2015</b> , 3, e1081861	4.3	18
40	Non-traditional Models: The Molecular Physiology of Sodium and Water Transport in Mosquito Malpighian Tubules <b>2015</b> , 255-278		1
39	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> , <b>2015</b> , 10, e0137084	3.7	13

38	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> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2014</b> , 48, 91-9	4.5	17
37	Evidence for intercellular communication in mosquito renal tubules: a putative role of gap junctions in coordinating and regulating the rapid diuretic effects of neuropeptides. <i>General and Comparative Endocrinology</i> , <b>2014</b> , 203, 43-8	3	13
36	Molecular identification and expression analysis of a diapause hormone receptor in the corn earworm, <i>Helicoverpa zea</i> . <i>Peptides</i> , <b>2014</b> , 53, 250-7	3.8	26
35	Molecular and functional characterization of <i>Anopheles gambiae</i> inward rectifier potassium (Kir1) channels: a novel role in egg production. <i>Insect Biochemistry and Molecular Biology</i> , <b>2014</b> , 51, 10-9	4.5	24
34	The excretion of NaCl and KCl loads in mosquitoes. 1. Control data. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 307, R837-49	3.2	13
33	Transcriptomic evidence for a dramatic functional transition of the malpighian tubules after a blood meal in the Asian tiger mosquito <i>Aedes albopictus</i> . <i>PLoS Neglected Tropical Diseases</i> , <b>2014</b> , 8, e2929 <sup>8</sup>	4.8	29
32	Excretion of NaCl and KCl loads in mosquitoes. 2. Effects of the small molecule Kir channel modulator VU573 and its inactive analog VU342. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 307, R850-61	3.2	17
31	Pharmacological validation of an inward-rectifier potassium (Kir) channel as an insecticide target in the yellow fever mosquito <i>Aedes aegypti</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e100700	3.7	31
30	Discovery and characterization of a potent and selective inhibitor of <i>Aedes aegypti</i> inward rectifier potassium channels. <i>PLoS ONE</i> , <b>2014</b> , 9, e110772	3.7	35
29	Molecular characterization of genes encoding inward rectifier potassium (Kir) channels in the bed bug ( <i>Cimex lectularius</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2013</b> , 164, 275-9	2.3	15
28	Cloning and functional characterization of inward-rectifying potassium (Kir) channels from Malpighian tubules of the mosquito <i>Aedes aegypti</i> . <i>Insect Biochemistry and Molecular Biology</i> , <b>2013</b> , 43, 75-90	4.5	44
27	Roles of PKC and phospho-adducin in transepithelial fluid secretion by Malpighian tubules of the yellow fever mosquito. <i>Tissue Barriers</i> , <b>2013</b> , 1,	4.3	5
26	Eliciting renal failure in mosquitoes with a small-molecule inhibitor of inward-rectifying potassium channels. <i>PLoS ONE</i> , <b>2013</b> , 8, e64905	3.7	53
25	Slc4-like anion transporters of the larval mosquito alimentary canal. <i>Journal of Insect Physiology</i> , <b>2012</b> , 58, 551-62	2.4	19
24	Transcellular and paracellular pathways of transepithelial fluid secretion in Malpighian (renal) tubules of the yellow fever mosquito <i>Aedes aegypti</i> . <i>Acta Physiologica</i> , <b>2011</b> , 202, 387-407	5.6	75
23	Role of an apical K,Cl cotransporter in urine formation by renal tubules of the yellow fever mosquito ( <i>Aedes aegypti</i> ). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2011</b> , 301, R1318-37	3.2	27
22	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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 298, R642-60	3.2	37
21	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> , <b>2010</b> , 299, R612-22	3.2	27

20	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> , <b>2009</b> , 296, F730-50	4.3	43
19	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> , <b>2009</b> , 212, 329-40	3	22
18	Gap junctions in Malpighian tubules of <i>Aedes aegypti</i> . <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 409-223		37
17	Osmotic and Ionic Regulation in Insects <b>2008</b> , 231-293		2
16	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> , <b>2007</b> , 282, 1409-214	5.4	62
15	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> , <b>2007</b> , 292, C2032-45	5.4	22
14	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> , <b>2006</b> , 209, 860-703	3	60
13	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> , <b>2006</b> , 281, 19241-50	5.4	70
12	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> , <b>2006</b> , 209, 1693-708	3	36
11	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> , <b>2006</b> , 144, 510-9	2.3	57
10	Cloning of a unique electrogenic bicarbonate transporter from the squid giant fiber lobe. <i>FASEB Journal</i> , <b>2006</b> , 20, A842	0.9	
9	The multifunctional fish gill: dominant site of gas exchange, osmoregulation, acid-base regulation, and excretion of nitrogenous waste. <i>Physiological Reviews</i> , <b>2005</b> , 85, 97-177	47.9	1763
8	Cloning and characterization of cDNAs encoding steroidogenic acute regulatory protein from freshwater stingrays ( <i>Potamotrygon</i> spp.). <i>Journal of Molecular Endocrinology</i> , <b>2005</b> , 35, 557-69	4.5	21
7	Pendrin immunoreactivity in the gill epithelium of a euryhaline elasmobranch. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2002</b> , 283, R983-92	3.2	88
6	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> , <b>2001</b> , 204, 3251-3259	3	94
5	Ionic transport in the fish gill epithelium <b>1999</b> , 283, 641-652		182
4	Ionic transport in the fish gill epithelium <b>1999</b> , 283, 641		4
3	Osmoregulation of the Atlantic stingray ( <i>Dasyatis sabina</i> ) from the freshwater Lake Jesup of the St. Johns River, Florida. <i>Physiological Zoology</i> , <b>1998</b> , 71, 553-60		64

2	Analysis of the <i>Aedes albopictus</i> C6/36 genome provides insight into cell line adaptations to in vitro viral propagation	1
1	Semi-synthetic Cinnamodial Analogues: Structural Insights into the Insecticidal and Antifeedant Activities of Drimane Sesquiterpenes Against the Mosquito <i>Aedes aegypti</i>	1