

# 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 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
2	Ionic transport in the fish gill epithelium. , 1999, 283, 641-652.		193
3	Ionic transport in the fish gill epithelium. <i>The Journal of Experimental Zoology</i> , 1999, 283, 641-652.	1.4	132
4	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
5	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
6	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> , 2011, 202, 387-407.	1.8	92
7	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
8	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
9	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
10	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
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> , 2006, 144, 510-519.	0.7	60
12	Eliciting Renal Failure in Mosquitoes with a Small-Molecule Inhibitor of Inward-Rectifying Potassium Channels. <i>PLoS ONE</i> , 2013, 8, e64905.	1.1	57
13	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
14	Analysis of the <i>Aedes albopictus</i> C6/36 genome provides insight into cell line utility for viral propagation. <i>GigaScience</i> , 2018, 7, 1-13.	3.3	51
15	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
16	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
17	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> , 2013, 43, 75-90.	1.2	47
18	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> , 2010, 298, R642-R660.	0.9	42

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19	Discovery and Characterization of a Potent and Selective Inhibitor of <i>Aedes aegypti</i> Inward Rectifier Potassium Channels. <i>PLoS ONE</i> , 2014, 9, e110772.	1.1	40
20	Gap junctions in Malpighian tubules of <i>Aedes aegypti</i> . <i>Journal of Experimental Biology</i> , 2008, 211, 409-422.	0.8	39
21	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
22	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> , 2014, 8, e2929.	1.3	37
23	Malpighian Tubules as Novel Targets for Mosquito Control. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 111.	1.2	34
24	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> , 2011, 301, R1318-R1337.	0.9	33
25	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
26	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> , 2014, 9, e100700.	1.1	33
27	Molecular identification and expression analysis of a diapause hormone receptor in the corn earworm, <i>Helicoverpa zea</i> . <i>Peptides</i> , 2014, 53, 250-257.	1.2	32
28	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
29	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> , 2014, 51, 10-19.	1.2	27
30	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
31	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
32	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
33	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
34	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> , 2019, 22, 827-839.	1.1	24
35	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
36	A natural agonist of mosquito TRPA1 from the medicinal plant <i>Cinnamomum fragrans</i> that is toxic, antifeedant, and repellent to the yellow fever mosquito <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2018, 12, e0006265.	1.3	23

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37	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
38	Slc4-like anion transporters of the larval mosquito alimentary canal. <i>Journal of Insect Physiology</i> , 2012, 58, 551-562.	0.9	21
39	The excretion of NaCl and KCl loads in mosquitoes. 1. Control data. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R837-R849.	0.9	20
40	Targeting renal epithelial channels for the control of insect vectors. <i>Tissue Barriers</i> , 2015, 3, e1081861.	1.6	20
41	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> , 2014, 307, R850-R861.	0.9	19
42	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
43	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> , 2018, 109, 55-68.	0.9	19
44	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> , 2014, 48, 91-99.	1.2	17
45	Insecticidal and Antifeedant Activities of Malagasy Medicinal Plant ( <i>Cinnamosma</i> sp.) Extracts and Drimane-Type Sesquiterpenes against <i>Aedes aegypti</i> Mosquitoes. <i>Insects</i> , 2019, 10, 373.	1.0	17
46	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> , 2013, 164, 275-279.	0.7	16
47	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. <i>Journal of Experimental Biology</i> , 2018, 221, .	0.8	16
48	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
49	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> , 2014, 203, 43-48.	0.8	14
50	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
51	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
52	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
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> , 2017, 8, 122.	1.0	9
54	Inward rectifier potassium (Kir) channels in the soybean aphid <i>Aphis glycines</i> : Functional characterization, pharmacology, and toxicology. <i>Journal of Insect Physiology</i> , 2018, 110, 57-65.	0.9	9

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55	Heterologous Expression of <i>Aedes aegypti</i> Cation Chloride Cotransporter 2 (aeCCC2) in <i>Xenopus laevis</i> Oocytes Induces an Enigmatic Na <sup>+</sup> /Li <sup>+</sup> Conductance. <i>Insects</i> , 2019, 10, 71.	1.0	9
56	Roles of PKC and phosphoadducin in transepithelial fluid secretion by Malpighian tubules of the yellow fever mosquito. <i>Tissue Barriers</i> , 2013, 1, e23120.	1.6	6
57	Semi-synthetic cinnamodial analogues: Structural insights into the insecticidal and antifeedant activities of drimane sesquiterpenes against the mosquito <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008073.	1.3	6
58	Descriptions of the Immature Stages of <i>Lutzomyia (Tricholateralis) cruciata</i> (Coquillett) (Diptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	5
59	Osmotic and Ionic Regulation in Insects. , 2008, , 231-293.		4
60	Morphology variation of <i>Lutzomyia cruciata</i> eggs (Diptera: Psychodidae: Phlebotominae) in southern Mexico. <i>Zootaxa</i> , 2017, 4258, 477.	0.2	4
61	Pharmacological Inhibition of Inward Rectifier Potassium Channels Induces Lethality in Larval <i>Aedes aegypti</i> . <i>Insects</i> , 2018, 9, 163.	1.0	4
62	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. <i>ACS Infectious Diseases</i> , 2019, 5, 917-931.	1.8	4
63	The Molecular Physiology and Toxicology of Inward Rectifier Potassium Channels in Insects. <i>Annual Review of Entomology</i> , 2022, 67, 125-142.	5.7	4
64	Further SAR on the (Phenylsulfonyl)piperazine Scaffold as Inhibitors of the <i>Aedes aegypti</i> Kir1 ( <i>Ae</i> Kir) Channel and Larvicides. <i>ChemMedChem</i> , 2021, 16, 319-327.	1.6	3
65	Larvicidal Activity of Carbon Black against the Yellow Fever Mosquito <i>Aedes aegypti</i> . <i>Insects</i> , 2022, 13, 307.	1.0	3
66	Non-traditional Models: The Molecular Physiology of Sodium and Water Transport in Mosquito Malpighian Tubules. , 2015, , 255-278.		2
67	Sequence analysis and function of mosquito aeCCC2 and <i>Drosophila</i> Ncc83 orthologs. <i>Insect Biochemistry and Molecular Biology</i> , 2022, 143, 103729.	1.2	2
68	Stop the crop: Insights into the insecticidal mode of action of cinnamodial against mosquitoes. <i>Pesticide Biochemistry and Physiology</i> , 2021, 171, 104743.	1.6	1
69	Introduction to the Special Issue on Insect Epithelial Transport. <i>Journal of Insect Physiology</i> , 2012, 58, 427.	0.9	0
70	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> , 2019, 138, 335-348.	0.4	0
71	Cloning of a unique electrogenic bicarbonate transporter from the squid giant fiber lobe. <i>FASEB Journal</i> , 2006, 20, A842.	0.2	0
72	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

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73	Functional analysis of mosquito and <i>Drosophila</i> Na <sup>+</sup> -dependent cation-chloride cotransporters. FASEB Journal, 2020, 34, 1-1.	0.2	0