

# Philip Poronnik

## List of Publications by Year in descending order

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112  
papers

3,582  
citations

126907

33  
h-index

175258

52  
g-index

115  
all docs

115  
docs citations

115  
times ranked

4329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Virtual Reality interventions for acute and chronic pain management. <i>International Journal of Biochemistry and Cell Biology</i> , 2019, 114, 105568.	2.8	147
2	Regulation of Neuronal Voltage-gated Sodium Channels by the Ubiquitin-Protein Ligases Nedd4 and Nedd4-2. <i>Journal of Biological Chemistry</i> , 2004, 279, 28930-28935.	3.4	138
3	Adipokines as a link between obesity and chronic kidney disease. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 305, F1629-F1636.	2.7	112
4	Cytoskeletal Anchoring of GLAST Determines Susceptibility to Brain Damage. <i>Journal of Biological Chemistry</i> , 2007, 282, 29414-29423.	3.4	105
5	Pioglitazone Inhibits Cell Growth and Reduces Matrix Production in Human Kidney Fibroblasts. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 638-645.	6.1	104
6	The renal cortical fibroblast in renal tubulointerstitial fibrosis. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1-5.	2.8	100
7	S100 protein CP-10 stimulates myeloid cell chemotaxis without activation. , 1996, 166, 427-437.		96
8	Transforming growth factor- $\beta$ 2/connective tissue growth factor axis in the kidney. <i>International Journal of Biochemistry and Cell Biology</i> , 2008, 40, 9-13.	2.8	94
9	P2X1 receptor membrane redistribution and down-regulation visualized by using receptor-coupled green fluorescent protein chimeras. <i>Neuropharmacology</i> , 2000, 39, 2054-2066.	4.1	83
10	Nedd4-2 Functionally Interacts with CIC-5. <i>Journal of Biological Chemistry</i> , 2004, 279, 54996-55007.	3.4	83
11	Regulation of the Voltage-gated K <sup>+</sup> Channels KCNQ2/3 and KCNQ3/5 by Ubiquitination. <i>Journal of Biological Chemistry</i> , 2007, 282, 12135-12142.	3.4	82
12	Cofilin Interacts with CIC-5 and Regulates Albumin Uptake in Proximal Tubule Cell Lines. <i>Journal of Biological Chemistry</i> , 2003, 278, 40169-40176.	3.4	81
13	Cell polarity defines three distinct domains in pancreatic beta cells. <i>Journal of Cell Science</i> , 2017, 130, 143-151.	2.0	72
14	High glucose transactivates the EGF receptor and up-regulates serum glucocorticoid kinase in the proximal tubule. <i>Kidney International</i> , 2005, 68, 985-997.	5.2	71
15	Characterization of a 25-pS nonselective cation channel in a cultured secretory epithelial cell line. <i>Journal of Membrane Biology</i> , 1990, 114, 37-52.	2.1	65
16	Albumin transport and processing by the proximal tubule: physiology and pathophysiology. <i>Current Opinion in Nephrology and Hypertension</i> , 2007, 16, 359-364.	2.0	64
17	Intracellular Ca <sup>2+</sup> release by flufenamic acid and other blockers of the non-selective cation channel. <i>FEBS Letters</i> , 1992, 296, 245-248.	2.8	63
18	The Distribution of P2X Receptor Clusters on Individual Neurons in Sympathetic Ganglia and Their Redistribution on Agonist Activation. <i>Journal of Biological Chemistry</i> , 2000, 275, 29107-29112.	3.4	62

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19	Pioglitazone increases renal tubular cell albumin uptake but limits proinflammatory and fibrotic responses. <i>Kidney International</i> , 2004, 65, 1647-1653.	5.2	61
20	Plasma membrane Ca <sup>2+</sup> -ATPase expression during colon cancer cell line differentiation. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 932-936.	2.1	59
21	NEDD4-2 as a potential candidate susceptibility gene for epileptic photosensitivity. <i>Genes, Brain and Behavior</i> , 2007, 6, 750-755.	2.2	56
22	A yellow fluorescent protein-based assay for high-throughput screening of glycine and GABA <sub>A</sub> receptor chloride channels. <i>Neuroscience Letters</i> , 2005, 380, 340-345.	2.1	54
23	Regulation of Albumin Endocytosis by PSD95/Dlg/ZO-1 (PDZ) Scaffolds. <i>Journal of Biological Chemistry</i> , 2006, 281, 16068-16077.	3.4	53
24	Human renal fibroblasts modulate proximal tubule cell growth and transport via the IGF-I axis. <i>Kidney International</i> , 1997, 52, 1486-1496.	5.2	51
25	Nedd4 and Nedd4-2: Ubiquitin ligases at work in the neuron. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 706-710.	2.8	51
26	ClC-5: A chloride channel with multiple roles in renal tubular albumin uptake. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1036-1042.	2.8	47
27	Mechanisms of arginine-induced increase in cytosolic calcium concentration in the beta-cell line NIT-1. <i>Diabetologia</i> , 1997, 40, 374-382.	6.3	45
28	Re-designing Science Pedagogy: Reversing the Flight from Science. <i>Journal of Science Education and Technology</i> , 2008, 17, 226-235.	3.9	45
29	Na <sup>+</sup> /H <sup>+</sup> exchanger regulatory factor 1 is a PDZ scaffold for the astroglial glutamate transporter GLAST. <i>Glia</i> , 2007, 55, 119-129.	4.9	41
30	Thrombin stimulates proinflammatory and proliferative responses in primary cultures of human proximal tubule cells. <i>Kidney International</i> , 2005, 67, 1315-1329.	5.2	38
31	MOLECULAR CHANGES IN PROXIMAL TUBULE FUNCTION IN DIABETES MELLITUS. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2004, 31, 372-379.	1.9	37
32	Rapid loss of glutamine synthetase from astrocytes in response to hypoxia: Implications for excitotoxicity. <i>Journal of Chemical Neuroanatomy</i> , 2010, 39, 211-220.	2.1	37
33	Nedd4-2 (NEDD4L) controls intracellular Na <sup>+</sup> -mediated activity of voltage-gated sodium channels in primary cortical neurons. <i>Biochemical Journal</i> , 2014, 457, 27-31.	3.7	37
34	Role of oxidative stress in age-associated chronic kidney pathologies. <i>Advances in Chronic Kidney Disease</i> , 2005, 12, 78-83.	1.4	36
35	Regulation of voltage-gated ion channels in excitable cells by the ubiquitin ligases Nedd4 and Nedd4-2. <i>Channels</i> , 2011, 5, 79-88.	2.8	36
36	Localisation of P2X receptors in human salivary gland epithelial cells and human embryonic kidney cells by sodium dodecyl sulfate-polyacrylamide gel electrophoresis/Western blotting and immunofluorescence. <i>Electrophoresis</i> , 1999, 20, 2065-2070.	2.4	34

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37	Adenoviral-Mediated Expression of Human Insulin-like Growth Factor-Binding Protein-3. Protein Expression and Purification, 1999, 16, 202-211.	1.3	34
38	PKC $\alpha$ Is Activated But Not Required During Glucose-Induced Insulin Secretion From Rat Pancreatic Islets. Diabetes, 2004, 53, 53-60.	0.6	33
39	In vivo visualization of albumin degradation in the proximal tubule. Kidney International, 2008, 74, 1480-1486.	5.2	33
40	The role of SGK-1 in angiotensin II-mediated sodium reabsorption in human proximal tubular cells. Nephrology Dialysis Transplantation, 2008, 23, 1834-1843.	0.7	33
41	Na <sup>+</sup> /H <sup>+</sup> Exchanger Regulatory Factor 1 (NHERF1) PDZ Scaffold Binds an Internal Binding Site in the Scavenger Receptor Megalin. Cellular Physiology and Biochemistry, 2011, 27, 171-178.	1.6	32
42	The Ubiquitin Proteasome System Is a Key Regulator of Pluripotent Stem Cell Survival and Motor Neuron Differentiation. Cells, 2019, 8, 581.	4.1	31
43	The Ubiquitin-Protein Ligase Nedd4-2 Differentially Interacts with and Regulates Members of the Tweety Family of Chloride Ion Channels. Journal of Biological Chemistry, 2008, 283, 24000-24010.	3.4	30
44	PKC $\delta$ -mediated remodeling of the actin cytoskeleton is involved in constitutive albumin uptake by proximal tubule cells. American Journal of Physiology - Renal Physiology, 2005, 288, F1227-F1235.	2.7	28
45	G protein coupled receptor transactivation: Extending the paradigm to include serine/threonine kinase receptors. International Journal of Biochemistry and Cell Biology, 2012, 44, 722-727.	2.8	28
46	Albumin and Glucose Effects On Cell Growth Parameters, Albumin Uptake and Na <sup>+</sup> /H <sup>+</sup> -Exchanger Isoform 3 in OK Cells. Cellular Physiology and Biochemistry, 2003, 13, 199-206.	1.6	27
47	Transport characteristics of human proximal tubule cells in primary culture. Nephrology, 1997, 3, 183-194.	1.6	27
48	Inhibition of KCa3.1 suppresses TGF- $\beta$ 1 induced MCP-1 expression in human proximal tubular cells through Smad3, p38 and ERK1/2 signaling pathways. International Journal of Biochemistry and Cell Biology, 2014, 47, 1-10.	2.8	27
49	Effects of air pollution on human health – Mechanistic evidence suggested by in vitro and in vivo modelling. Environmental Research, 2022, 212, 113378.	7.5	27
50	Control of intracellular Ca <sup>2+</sup> by adrenergic and muscarinic agonists in mouse mandibular ducts and endpieces. Cell Calcium, 1993, 14, 631-638.	2.4	26
51	Regulation of the voltage-gated K <sup>+</sup> channels KCNQ2/3 and KCNQ3/5 by serum- and glucocorticoid-regulated kinase-1. American Journal of Physiology - Cell Physiology, 2008, 295, C73-C80.	4.6	26
52	The interaction between megalin and ClC-5 is scaffolded by the Na <sup>+</sup> /H <sup>+</sup> exchanger regulatory factor 2 (NHERF2) in proximal tubule cells. International Journal of Biochemistry and Cell Biology, 2012, 44, 815-823.	2.8	26
53	HCO <sub>3</sub> <sup>-</sup> -dependent ACh-activated Na <sup>+</sup> influx in sheep parotid secretory endpieces. Pflugers Archiv European Journal of Physiology, 1995, 429, 852-858.	2.8	25
54	Using explicit teaching to improve how bioscience students write to the lay public. American Journal of Physiology - Advances in Physiology Education, 2007, 31, 167-175.	1.6	24

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55	Cannabinoid Receptor 2 Expression in Human Proximal Tubule Cells is Regulated by Albumin Independent of ERK1/2 Signaling. <i>Cellular Physiology and Biochemistry</i> , 2013, 32, 1309-1319.	1.6	24
56	A nucleotide receptor that mobilizes Ca <sup>2+</sup> in the mouse submandibular salivary cell line ST885. <i>British Journal of Pharmacology</i> , 1994, 111, 1135-1139.	5.4	22
57	Muscarinic-induced Recruitment of Plasma Membrane Ca <sup>2+</sup> -ATPase Involves PSD-95/Dlg/Zo-1-mediated Interactions. <i>Journal of Biological Chemistry</i> , 2009, 284, 1820-1830.	3.4	20
58	A new splice variant of the glutamate-aspartate transporter: Cloning and immunolocalization of GLAST1c in rat, pig and human brains. <i>Journal of Chemical Neuroanatomy</i> , 2012, 43, 52-63.	2.1	20
59	Acute leptin exposure reduces megalin expression and upregulates TGF $\beta$ 1 in cultured renal proximal tubule cells. <i>Molecular and Cellular Endocrinology</i> , 2015, 401, 25-34.	3.2	20
60	Learning, memory and long-term potentiation are altered in Nedd4 heterozygous mice. <i>Behavioural Brain Research</i> , 2016, 303, 176-181.	2.2	20
61	Tetraethylammonium blocks muscarinically evoked secretion in the sheep parotid gland by a mechanism additional to its blockade of BK channels. <i>Pflügers Archiv European Journal of Physiology</i> , 1992, 420, 167-171.	2.8	19
62	The ACh-evoked, Ca <sup>2+</sup> -activated Whole-cell K <sup>+</sup> Current in Mouse Mandibular Secretory Cells. Whole-cell and Fluorescence Studies. <i>Journal of Membrane Biology</i> , 1996, 152, 253-259.	2.1	19
63	Insulin Secretagogues, But Not Glucose, Stimulate an Increase in [Ca <sup>2+</sup> ] <sub>i</sub> in the Fetal Human and Porcine $\beta$ -Cell. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003, 88, 2753-2759.	3.6	19
64	A method for the isolation of glomerular and tubulointerstitial endothelial cells and a comparison of characteristics with the human umbilical vein endothelial cell model. <i>Nephrology</i> , 2004, 9, 229-237.	1.6	19
65	The Opinion Editorial: teaching physiology outside the box. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2006, 30, 73-82.	1.6	19
66	Proinflammatory and proliferative responses of human proximal tubule cells to PAR-2 activation. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F1441-F1449.	2.7	19
67	Particulate Matter, an Intrauterine Toxin Affecting Foetal Development and Beyond. <i>Antioxidants</i> , 2021, 10, 732.	5.1	19
68	Exploring User Needs in the Development of a Virtual Reality-Based Advanced Life Support Training Platform: Exploratory Usability Study. <i>JMIR Serious Games</i> , 2020, 8, e20797.	3.1	19
69	Na <sup>+</sup> -dependent amino acid transport is a major factor determining the rate of (Na <sup>+</sup> , K <sup>+</sup> )-ATPase mediated cation transport in intact HeLa cells. <i>Journal of Cellular Physiology</i> , 1986, 129, 85-93.	4.1	18
70	Diphenylamine-2-carboxylate (DPC) reduces calcium influx in a mouse mandibular cell line (ST885). <i>Cell Calcium</i> , 1991, 12, 441-447.	2.4	17
71	Use of replication deficient adenoviruses to investigate the role of G proteins in Ca <sup>2+</sup> signalling in epithelial cells. <i>Cell Calcium</i> , 1998, 24, 97-103.	2.4	16
72	The effects of high glucose and atorvastatin on endothelial cell matrix production. <i>Diabetic Medicine</i> , 2004, 21, 1102-1107.	2.3	16

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73	TGF- $\beta$ 1 dissociates human proximal tubule cell growth and Na <sup>+</sup> -H <sup>+</sup> exchange activity. <i>Kidney International</i> , 1998, 53, 1601-1607.	5.2	15
74	Assessing core manipulative skills in a large, first-year laboratory. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2007, 31, 266-269.	1.6	15
75	Feedback inhibition of epithelial Na <sup>+</sup> channels in <i>Xenopus</i> oocytes does not require G $\alpha$ or G $\beta$ proteins. <i>FEBS Letters</i> , 1999, 459, 443-447.	2.8	13
76	An Antisense of Protein Kinase C- $\eta$ Inhibits Proliferation of Human Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2000, 23, 555-559.	2.9	13
77	Localisation of novel forms of glutamate transporters and the cystine-glutamate antiporter in the choroid plexus: Implications for CSF glutamate homeostasis. <i>Journal of Chemical Neuroanatomy</i> , 2012, 43, 64-75.	2.1	13
78	Human Cortical Fibroblast Responses to High Glucose and Hypoxia. <i>Nephron Physiology</i> , 2004, 96, p121-p129.	1.2	12
79	Short term exposure to elevated levels of leptin reduces proximal tubule cell metabolic activity. <i>Molecular and Cellular Endocrinology</i> , 2014, 382, 38-45.	3.2	12
80	Purinergic responses in HT29 colonic epithelial cells are mediated by G protein $\beta$ -subunits. <i>Cell Calcium</i> , 2000, 27, 247-255.	2.4	11
81	The plasma membrane Ca <sup>2+</sup> -ATPase: Regulation by PSD-95/Dlg/Zo-1 scaffolds. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 805-808.	2.8	11
82	Subtle gait abnormalities in Nedd4 heterozygous mice. <i>Behavioural Brain Research</i> , 2014, 260, 15-24.	2.2	10
83	Diet induced obesity in rats reduces $\text{NHE}^3$ and $\text{Na}^+/\text{K}^+ \text{ATPase}$ expression in the kidney. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015, 42, 1118-1126.	1.9	10
84	Insulin and diet-induced changes in the ubiquitin-modified proteome of rat liver. <i>PLoS ONE</i> , 2017, 12, e0174431.	2.5	10
85	Antisense co-suppression of G $\beta$ q and G $\beta$ 11 demonstrates that both isoforms mediate M $\beta$ 3-receptor-activated Ca <sup>2+</sup> signalling in intact epithelial cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 444, 644-653.	2.8	9
86	Daily & Hourly Adherence. , 2016, , .		9
87	Innovation During a Pandemic: Developing a Guideline for Infection Prevention and Control to Support Education Through Virtual Reality. <i>Frontiers in Digital Health</i> , 2021, 3, 628452.	2.8	9
88	Designing Virtual Reality-Based Conversational Agents to Train Clinicians in Verbal De-escalation Skills: Exploratory Usability Study. <i>JMIR Serious Games</i> , 2022, 10, e38669.	3.1	9
89	Sgk-1 is a Positive Regulator of Constitutive Albumin Uptake in Renal Proximal Tubule Cells. <i>Cellular Physiology and Biochemistry</i> , 2012, 30, 1215-1226.	1.6	8
90	$\beta$ -Secretase inhibition promotes fibrotic effects of albumin in proximal tubular epithelial cells. <i>British Journal of Pharmacology</i> , 2013, 169, 1239-1251.	5.4	8

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91	Chloride channel CIC-5 binds to aspartyl aminopeptidase to regulate renal albumin endocytosis. American Journal of Physiology - Renal Physiology, 2015, 308, F784-F792.	2.7	8
92	ALS-SimVR: Advanced Life Support Virtual Reality Training Application. , 2019, , .		8
93	Understanding STEM academics'™ responses and resilience to educational reform of academic roles in higher education. International Journal of STEM Education, 2022, 9, 11.	5.0	8
94	Physiological changes in extracellular sodium directly control human proximal tubule growth and transport. Pflugers Archiv European Journal of Physiology, 1997, 435, 211-218.	2.8	6
95	Uptake of leptin and albumin via separate pathways in proximal tubule cells. International Journal of Biochemistry and Cell Biology, 2016, 79, 194-198.	2.8	6
96	XR game development as a tool for authentic, experiential, and collaborative learning. Biochemistry and Molecular Biology Education, 2021, 49, 846-847.	1.2	6
97	Studying heterotrimeric Gâ€proteinâ€linked signal transduction using replicationâ€deficient adenoviruses. Immunology and Cell Biology, 2000, 78, 375-386.	2.3	5
98	Reduced tubular degradation of glomerular filtered plasma albumin is a common feature in acute and chronic kidney disease. Clinical and Experimental Pharmacology and Physiology, 2018, 45, 241-249.	1.9	5
99	The personal response: A novel writing assignment to engage first year students in large human biology classes. Biochemistry and Molecular Biology Education, 2007, 35, 89-96.	1.2	4
100	Negative regulation of Ca <sup>2+</sup> influx during P2Y <sub>2</sub> purinergic receptor activation is mediated by G $\beta$ 3-subunits. Cell Calcium, 2010, 47, 55-64.	2.4	4
101	The proximal tubule and albuminuriaâ€at last a starring role. Nature Reviews Nephrology, 2015, 11, 573-575.	9.6	4
102	The effect of spin level and ball exit speed on forearm muscle activity in the tennis forehand stroke. International Journal of Sports Science and Coaching, 0, , 174795412110076.	1.4	3
103	Postnatal developmental expression of the PDZ scaffolds Na <sup>+</sup> -H <sup>+</sup> exchanger regulatory factors 1 and 2 in the rat cochlea. Cell and Tissue Research, 2006, 323, 53-70.	2.9	2
104	Biohorizons. Biochemistry and Molecular Biology Education, 2007, 35, 255-262.	1.2	2
105	NHERF-1 regulation of EGF and neurotensin signalling in HT-29 epithelial cells. Biochemical and Biophysical Research Communications, 2013, 432, 568-573.	2.1	2
106	Bioscience education 2030 and beyond: Where will technology take the curriculum?. Biochemistry and Molecular Biology Education, 2020, 48, 563-567.	1.2	2
107	Medical negligence laws and virtual reality in healthcare. Australian Journal of General Practice, 2020, 49, 525-529.	0.8	2
108	Use of Adenoviruses to Study Isoform Specificity of G-Protein-Receptor-Coupled Ca <sup>2+</sup> Signaling in Intact Epithelial Cells. Cell Biochemistry and Biophysics, 2002, 36, 221-233.	1.8	1

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109	What biomedical education might learn from real estate tours. <i>Biochemistry and Molecular Biology Education</i> , 2021, 49, 681-682.	1.2	1
110	Proximal tubular epithelial cells preferentially endocytose covalently modified albumin compared to native albumin. <i>Nephrology</i> , 2019, 24, 121-126.	1.6	0
111	Deficit and decline in Australian science; when shall we learn?. <i>Australian Zoologist</i> , 2017, 38, 422-429.	1.1	0
112	The Global Canopy: Propagating Discipline-Based Global Mobility. , 2018, , 79-100.		0