

# Gerardo Gamba

## List of Publications by Citations

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98  
papers

9,678  
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46  
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g-index

102  
ext. papers

10,618  
ext. citations

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5.99  
L-index

#	Paper	IF	Citations
98	Cloning and characterization of an extracellular Ca(2+)-sensing receptor from bovine parathyroid. <i>Nature</i> , <b>1993</b> , 366, 575-80	50.4	2224
97	Molecular physiology and pathophysiology of electroneutral cation-chloride cotransporters. <i>Physiological Reviews</i> , <b>2005</b> , 85, 423-93	47.9	613
96	Cloning and functional expression of a rat kidney extracellular calcium/polyvalent cation-sensing receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 131-5	11.5	421
95	Molecular pathogenesis of inherited hypertension with hyperkalemia: the Na-Cl cotransporter is inhibited by wild-type but not mutant WNK4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 680-4	11.5	342
94	Primary structure and functional expression of a cDNA encoding the thiazide-sensitive, electroneutral sodium-chloride cotransporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1993</b> , 90, 2749-53	11.5	316
93	Roles of the cation-chloride cotransporters in neurological disease. <i>Nature Clinical Practice Neurology</i> , <b>2008</b> , 4, 490-503		294
92	Cloning and characterization of KCC3 and KCC4, new members of the cation-chloride cotransporter gene family. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 16355-62	5.4	229
91	Molecular physiology of cation-coupled Cl <sup>-</sup> cotransport: the SLC12 family. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2004</b> , 447, 580-93	4.6	205
90	Angiotensin II signaling increases activity of the renal Na-Cl cotransporter through a WNK4-SPAK-dependent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 4384-9	11.5	200
89	Deranged transcriptional regulation of cell-volume-sensitive kinase hSGK in diabetic nephropathy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 8157-62	11.5	194
88	Activation of the renal Na <sup>+</sup> :Cl <sup>-</sup> cotransporter by angiotensin II is a WNK4-dependent process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 7929-34	11.5	191
87	The Na <sup>+</sup> :Cl <sup>-</sup> cotransporter is activated and phosphorylated at the amino-terminal domain upon intracellular chloride depletion. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 28755-63	5.4	182
86	WNK3 modulates transport of Cl <sup>-</sup> in and out of cells: implications for control of cell volume and neuronal excitability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16783-8	11.5	178
85	Regulation of NKCC2 by a chloride-sensing mechanism involving the WNK3 and SPAK kinases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 8458-63	11.5	174
84	Identification and functional characterization of cation-chloride cotransporters in plants. <i>Plant Journal</i> , <b>2007</b> , 50, 278-92	6.9	164
83	WNK3 kinase is a positive regulator of NKCC2 and NCC, renal cation-Cl <sup>-</sup> cotransporters required for normal blood pressure homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 16777-82	11.5	156
82	Unique chloride-sensing properties of WNK4 permit the distal nephron to modulate potassium homeostasis. <i>Kidney International</i> , <b>2016</b> , 89, 127-34	9.9	148

81	Functional comparison of the K <sup>+</sup> -Cl <sup>-</sup> cotransporters KCC1 and KCC4. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 30326-34	5.4	138
80	Nedd4-2 modulates renal Na <sup>+</sup> -Cl <sup>-</sup> cotransporter via the aldosterone-SGK1-Nedd4-2 pathway. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2011</b> , 22, 1707-19	12.7	127
79	Regulation of Renal Electrolyte Transport by WNK and SPAK-OSR1 Kinases. <i>Annual Review of Physiology</i> , <b>2016</b> , 78, 367-89	23.1	123
78	Mineralocorticoid receptor phosphorylation regulates ligand binding and renal response to volume depletion and hyperkalemia. <i>Cell Metabolism</i> , <b>2013</b> , 18, 660-71	24.6	122
77	Activation of the bumetanide-sensitive Na <sup>+</sup> ,K <sup>+</sup> ,2Cl <sup>-</sup> cotransporter (NKCC2) is facilitated by Tamm-Horsfall protein in a chloride-sensitive manner. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 30200-10	5.4	119
76	N-Glycosylation at two sites critically alters thiazide binding and activity of the rat thiazide-sensitive Na <sup>(+)</sup> :Cl <sup>(-)</sup> cotransporter. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2003</b> , 14, 271-82	12.7	107
75	The Effect of WNK4 on the Na <sup>+</sup> -Cl <sup>-</sup> Cotransporter Is Modulated by Intracellular Chloride. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2015</b> , 26, 1781-6	12.7	102
74	Thick ascending limb: the Na <sup>(+)</sup> :K <sup>(+)</sup> :2Cl <sup>(-)</sup> co-transporter, NKCC2, and the calcium-sensing receptor, CaSR. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2009</b> , 458, 61-76	4.6	101
73	WNK3 bypasses the tonicity requirement for K-Cl cotransporter activation via a phosphatase-dependent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 1976-81	11.5	100
72	WNK protein kinases modulate cellular Cl <sup>-</sup> flux by altering the phosphorylation state of the Na-K-Cl and K-Cl cotransporters. <i>Physiology</i> , <b>2006</b> , 21, 326-35	9.8	98
71	Molecular, functional, and genomic characterization of human KCC2, the neuronal K-Cl cotransporter. <i>Molecular Brain Research</i> , <b>2002</b> , 103, 91-105		98
70	Functional properties of the apical Na <sup>+</sup> -K <sup>+</sup> -2Cl <sup>-</sup> cotransporter isoforms. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 11004-12	5.4	96
69	The SLC12 family of electroneutral cation-coupled chloride cotransporters. <i>Molecular Aspects of Medicine</i> , <b>2013</b> , 34, 288-98	16.7	93
68	Aldosterone paradox: differential regulation of ion transport in distal nephron. <i>Physiology</i> , <b>2011</b> , 26, 115-23	9.8	88
67	Hyperkalemic hypertension-associated cullin 3 promotes WNK signaling by degrading KLHL3. <i>Journal of Clinical Investigation</i> , <b>2014</b> , 124, 4723-36	15.9	87
66	Role of WNK kinases in regulating tubular salt and potassium transport and in the development of hypertension. <i>American Journal of Physiology - Renal Physiology</i> , <b>2005</b> , 288, F245-52	4.3	85
65	Thiazide diuretics directly induce osteoblast differentiation and mineralized nodule formation by interacting with a sodium chloride co-transporter in bone. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2007</b> , 18, 2509-16	12.7	82
64	Spironolactone prevents chronic kidney disease caused by ischemic acute kidney injury. <i>Kidney International</i> , <b>2013</b> , 83, 93-103	9.9	81

63	Modulation of NCC activity by low and high K(+) intake: insights into the signaling pathways involved. <i>American Journal of Physiology - Renal Physiology</i> , <b>2014</b> , 306, F1507-19	4.3	73
62	The thiazide-sensitive Na <sup>+</sup> -Cl <sup>-</sup> cotransporter: molecular biology, functional properties, and regulation by WNKs. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 297, F838-48	4.3	68
61	WNK2 kinase is a novel regulator of essential neuronal cation-chloride cotransporters. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 30171-80	5.4	67
60	AT1 receptor antagonism before ischemia prevents the transition of acute kidney injury to chronic kidney disease. <i>Kidney International</i> , <b>2016</b> , 89, 363-73	9.9	62
59	Electroneutral cation-chloride cotransporters in the central nervous system. <i>Neurochemical Research</i> , <b>2004</b> , 29, 17-25	4.6	61
58	WNK-SPAK-NCC cascade revisited: WNK1 stimulates the activity of the Na-Cl cotransporter via SPAK, an effect antagonized by WNK4. <i>Hypertension</i> , <b>2014</b> , 64, 1047-53	8.5	60
57	Regulation of the renal Na <sup>+</sup> -Cl <sup>-</sup> cotransporter by phosphorylation and ubiquitylation. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, F1573-83	4.3	55
56	Insulin increases the functional activity of the renal NaCl cotransporter. <i>Journal of Hypertension</i> , <b>2013</b> , 31, 303-11	1.9	54
55	Potassium and Its Discontents: New Insight, New Treatments. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2016</b> , 27, 981-9	12.7	51
54	Hsp72 is an early and sensitive biomarker to detect acute kidney injury. <i>EMBO Molecular Medicine</i> , <b>2011</b> , 3, 5-20	12	49
53	Recovery from ischemic acute kidney injury by spironolactone administration. <i>Nephrology Dialysis Transplantation</i> , <b>2012</b> , 27, 3160-9	4.3	46
52	Affinity-defining domains in the Na-Cl cotransporter: a different location for Cl <sup>-</sup> and thiazide binding. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 17266-17275	5.4	42
51	WNK kinases, renal ion transport and hypertension. <i>American Journal of Nephrology</i> , <b>2008</b> , 28, 860-70	4.6	40
50	Revisiting the NaCl cotransporter regulation by with-no-lysine kinases. <i>American Journal of Physiology - Cell Physiology</i> , <b>2015</b> , 308, C779-91	5.4	38
49	SPAK and OSR1 play essential roles in potassium homeostasis through actions on the distal convoluted tubule. <i>Journal of Physiology</i> , <b>2016</b> , 594, 4945-66	3.9	36
48	N-terminal serine dephosphorylation is required for KCC3 cotransporter full activation by cell swelling. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 31468-76	5.4	35
47	Phorbol ester stimulation of RasGRP1 regulates the sodium-chloride cotransporter by a PKC-independent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 20120-5	11.5	34
46	Renal potassium-chloride cotransporters. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2001</b> , 10, 685-94	3.3	34

45	Mini-review: regulation of the renal NaCl cotransporter by hormones. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 310, F10-4	4.3	33
44	A novel protein kinase signaling pathway essential for blood pressure regulation in humans. <i>Trends in Endocrinology and Metabolism</i> , <b>2008</b> , 19, 91-5	8.8	33
43	Ovarian hormones and prolactin increase renal NaCl cotransporter phosphorylation. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 308, F799-808	4.3	32
42	WNK3 is a putative chloride-sensing kinase. <i>Cellular Physiology and Biochemistry</i> , <b>2011</b> , 28, 1123-34	3.9	32
41	Gain-of-function missense variant in SLC12A2, encoding the bumetanide-sensitive NKCC1 cotransporter, identified in human schizophrenia. <i>Journal of Psychiatric Research</i> , <b>2016</b> , 77, 22-6	5.2	31
40	A single nucleotide polymorphism alters the activity of the renal Na <sup>+</sup> :Cl <sup>-</sup> cotransporter and reveals a role for transmembrane segment 4 in chloride and thiazide affinity. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16553-60	5.4	31
39	Molecular biology of distal nephron sodium transport mechanisms. <i>Kidney International</i> , <b>1999</b> , 56, 1606-22	3.0	30
38	Mechanisms of sodium-chloride cotransporter modulation by angiotensin II. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2012</b> , 21, 516-22	3.5	29
37	WNK3-SPAK interaction is required for the modulation of NCC and other members of the SLC12 family. <i>Cellular Physiology and Biochemistry</i> , <b>2012</b> , 29, 291-302	3.9	29
36	Phosphorylation by PKC and PKA regulate the kinase activity and downstream signaling of WNK4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E879-E886	11.5	28
35	Gender Differences in the Acute Kidney Injury to Chronic Kidney Disease Transition. <i>Scientific Reports</i> , <b>2017</b> , 7, 12270	4.9	28
34	NKCC2 surface expression in mammalian cells: down-regulation by novel interaction with aldolase B. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 33817-33830	5.4	28
33	The many roles of the calcium-sensing receptor in health and disease. <i>Archives of Medical Research</i> , <b>1999</b> , 30, 436-48	6.6	28
32	Molecular evidence for a role for K <sup>(+)</sup> -Cl <sup>(-)</sup> cotransporters in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , <b>2013</b> , 305, F1402-11	4.3	27
31	Exonic mutations in the SLC12A3 gene cause exon skipping and premature termination in Gitelman syndrome. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2015</b> , 26, 271-9	12.7	26
30	Physiological role of SLC12 family members in the kidney. <i>American Journal of Physiology - Renal Physiology</i> , <b>2016</b> , 311, F131-44	4.3	24
29	Kidney-specific WNK1 isoform (KS-WNK1) is a potent activator of WNK4 and NCC. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 315, F734-F745	4.3	23
28	Increased phosphorylation of the renal Na <sup>+</sup> -Cl <sup>-</sup> cotransporter in male kidney transplant recipient patients with hypertension: a prospective cohort. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 309, F836-42	4.3	18

27	The Effect of Spironolactone on Acute Kidney Injury After Cardiac Surgery: A Randomized, Placebo-Controlled Trial. <i>American Journal of Kidney Diseases</i> , <b>2017</b> , 69, 192-199	7.4	18
26	WNK3 abrogates the NEDD4-2-mediated inhibition of the renal Na <sup>+</sup> -Cl <sup>-</sup> cotransporter. <i>American Journal of Physiology - Renal Physiology</i> , <b>2014</b> , 307, F275-86	4.3	18
25	Heat shock protein 72 (Hsp72) specific induction and temporal stability in urine samples as a reliable biomarker of acute kidney injury (AKI). <i>Biomarkers</i> , <b>2015</b> , 20, 453-9	2.6	15
24	The Calcium-Sensing Receptor Increases Activity of the Renal NCC through the WNK4-SPAK Pathway. <i>Journal of the American Society of Nephrology: JASN</i> , <b>2018</b> , 29, 1838-1848	12.7	15
23	Intra-renal transfection of heat shock protein 90 alpha or beta (Hsp90α/β) protects against ischemia/reperfusion injury. <i>Nephrology Dialysis Transplantation</i> , <b>2014</b> , 29, 301-12	4.3	13
22	Mutation affecting the conserved acidic WNK1 motif causes inherited hyperkalemic hyperchloremic acidosis. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 6379-6394	15.9	11
21	The thiazide sensitive sodium chloride co-transporter NCC is modulated by site-specific ubiquitylation. <i>Scientific Reports</i> , <b>2017</b> , 7, 12981	4.9	10
20	Inactivation of SPAK kinase reduces body weight gain in mice fed a high-fat diet by improving energy expenditure and insulin sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2018</b> , 314, E53-E65	6	9
19	With no lysine L-WNK1 isoforms are negative regulators of the K <sup>+</sup> -Cl <sup>-</sup> cotransporters. <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 311, C54-66	5.4	9
18	Regulation of the renal NaCl cotransporter by the WNK/SPAK pathway: lessons learned from genetically altered animals. <i>American Journal of Physiology - Renal Physiology</i> , <b>2019</b> , 316, F146-F158	4.3	9
17	WNK3 and WNK4 exhibit opposite sensitivity with respect to cell volume and intracellular chloride concentration. <i>American Journal of Physiology - Cell Physiology</i> , <b>2020</b> , 319, C371-C380	5.4	7
16	The regulation of Na <sup>+</sup> -Cl <sup>-</sup> cotransporter by with-no-lysine kinase 4. <i>Current Opinion in Nephrology and Hypertension</i> , <b>2016</b> , 25, 417-23	3.5	7
15	Insulin and SGK1 reduce the function of Na <sup>+</sup> /monocarboxylate transporter 1 (SMCT1/SLC5A8). <i>American Journal of Physiology - Cell Physiology</i> , <b>2016</b> , 311, C720-C734	5.4	6
14	Geraniin is a diuretic by inhibiting the Na-K-2Cl cotransporter NKCC2. <i>American Journal of Physiology - Renal Physiology</i> , <b>2018</b> , 314, F240-F250	4.3	5
13	Mexneurin is a novel precursor of peptides in the central nervous system of rodents. <i>FEBS Letters</i> , <b>2017</b> , 591, 1627-1636	3.8	5
12	The nanopeptide hormone vasopressin is a new player in the modulation of renal Na <sup>(+)</sup> -Cl <sup>(-)</sup> cotransporter activity. <i>Kidney International</i> , <b>2010</b> , 78, 127-9	9.9	5
11	The European Eel NCC Gene Encodes a Thiazide-resistant Na-Cl Cotransporter. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 22472-22481	5.4	4
10	Structure-function relationships in the renal NaCl cotransporter (NCC). <i>Current Topics in Membranes</i> , <b>2019</b> , 83, 177-204	2.2	3

9	Resilience to acute kidney injury in offspring of maternal protein restriction. <i>American Journal of Physiology - Renal Physiology</i> , <b>2019</b> , 317, F1637-F1648	4.3	3
8	SIRT7 modulates the stability and activity of the renal K-Cl cotransporter KCC4 through deacetylation. <i>EMBO Reports</i> , <b>2021</b> , 22, e50766	6.5	3
7	On the molecular mechanism of renal salt excretion modulation by extracellular potassium. <i>Journal of Physiology</i> , <b>2016</b> , 594, 6071-6072	3.9	2
6	Role of KLHL3 and dietary K in regulating KS-WNK1 expression. <i>American Journal of Physiology - Renal Physiology</i> , <b>2021</b> , 320, F734-F747	4.3	2
5	Molecular mechanisms for the modulation of blood pressure and potassium homeostasis by the distal convoluted tubule.. <i>EMBO Molecular Medicine</i> , <b>2021</b> , e14273	12	2
4	Disruption of the with no lysine kinase-STE20-proline alanine-rich kinase pathway reduces the hypertension induced by angiotensin II. <i>Journal of Hypertension</i> , <b>2018</b> , 36, 361-367	1.9	1
3	Familial Hyperkalemic Hypertension Genotype With a Negative Phenotype: A CUL3 Mosaicism. <i>American Journal of Hypertension</i> , <b>2020</b> , 33, 278-281	2.3	1
2	In Reply to <del>U</del> Assessing the Effect of Spironolactone on Acute Kidney Injury After Cardiac SurgeryU <i>American Journal of Kidney Diseases</i> , <b>2017</b> , 70, 152-153	7.4	
1	Letter to the editor: Remembering Steve Hebert (1946-2008). <i>American Journal of Physiology - Cell Physiology</i> , <b>2018</b> , 315, C122-C123	5.4	