

# Alicia A Mcdonough

## List of Publications by Year in descending order

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106  
papers

5,302  
citations

71102

41  
h-index

91884

69  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3841  
citing authors

#	ARTICLE	IF	CITATIONS
1	The sodium pump needs its $\hat{I}^2$ subunit. FASEB Journal, 1990, 4, 1598-1605.	0.5	331
2	Potassium homeostasis and management of dyskalemia in kidney diseases: conclusions from a Kidney Disease: Improving Global Outcomes (KDIGO) Controversies Conference. Kidney International, 2020, 97, 42-61.	5.2	260
3	AT 1A Angiotensin Receptors in the Renal Proximal Tubule Regulate Blood Pressure. Cell Metabolism, 2011, 13, 469-475.	16.2	220
4	Sexual Dimorphic Pattern of Renal Transporters and Electrolyte Homeostasis. Journal of the American Society of Nephrology: JASN, 2017, 28, 3504-3517.	6.1	202
5	Reduced Sodium Pump $\hat{I}^1$ , $\hat{I}^3$ , and $\hat{I}^2$ -Isoform Protein Levels and Na <sup>+</sup> , K <sup>+</sup> -ATPase Activity but Unchanged Na <sup>+</sup> -Ca <sup>2+</sup> Exchanger Protein Levels in Human Heart Failure. Circulation, 1999, 99, 2105-2112.	1.6	181
6	The absence of intrarenal ACE protects against hypertension. Journal of Clinical Investigation, 2013, 123, 2011-2023.	8.2	176
7	Renal Transporter Activation During Angiotensin-II Hypertension is Blunted in Interferon- $\hat{I}^3$ and Interleukin-17A Mice. Hypertension, 2015, 65, 569-576.	2.7	166
8	Mechanisms of proximal tubule sodium transport regulation that link extracellular fluid volume and blood pressure. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R851-R861.	1.8	148
9	Interleukin-17A Regulates Renal Sodium Transporters and Renal Injury in Angiotensin II-Induced Hypertension. Hypertension, 2016, 68, 167-174.	2.7	147
10	ANG II provokes acute trafficking of distal tubule Na <sup>+</sup> -Cl <sup>-</sup> cotransporter to apical membrane. American Journal of Physiology - Renal Physiology, 2007, 293, F662-F669.	2.7	137
11	Increasing plasma [K <sup>+</sup> ] by intravenous potassium infusion reduces NCC phosphorylation and drives kaliuresis and natriuresis. American Journal of Physiology - Renal Physiology, 2014, 306, F1059-F1068.	2.7	116
12	Interleukin-1 Receptor Activation Potentiates Salt Reabsorption in Angiotensin II-Induced Hypertension via the NKCC2 Co-transporter in the Nephron. Cell Metabolism, 2016, 23, 360-368.	16.2	113
13	Recent Advances in Understanding Integrative Control of Potassium Homeostasis. Annual Review of Physiology, 2009, 71, 381-401.	13.1	109
14	Differential regulation of Na <sup>+</sup> transporters along nephron during ANG II-dependent hypertension: distal stimulation counteracted by proximal inhibition. American Journal of Physiology - Renal Physiology, 2013, 305, F510-F519.	2.7	91
15	Potassium Homeostasis: The Knowns, the Unknowns, and the Health Benefits. Physiology, 2017, 32, 100-111.	3.1	90
16	Considerations when quantitating protein abundance by immunoblot. American Journal of Physiology - Cell Physiology, 2015, 308, C426-C433.	4.6	88
17	Skeletal muscle regulates extracellular potassium. American Journal of Physiology - Renal Physiology, 2002, 282, F967-F974.	2.7	85
18	Reversible effects of acute hypertension on proximal tubule sodium transporters. American Journal of Physiology - Cell Physiology, 1998, 274, C1090-C1100.	4.6	81

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19	Differential traffic of proximal tubule Na <sup>+</sup> transporters during hypertension or PTH: NHE3 to base of microvilli vs. NaPi2 to endosomes. American Journal of Physiology - Renal Physiology, 2004, 287, F896-F906.	2.7	79
20	Effects of dietary salt on renal Na <sup>+</sup> transporter subcellular distribution, abundance, and phosphorylation status. American Journal of Physiology - Renal Physiology, 2008, 295, F1003-F1016.	2.7	76
21	Paracellular epithelial sodium transport maximizes energy efficiency in the kidney. Journal of Clinical Investigation, 2016, 126, 2509-2518.	8.2	74
22	Skeletal Muscle Na,K-ATPase $\alpha$ and $\beta$ Subunit Protein Levels Respond to Hypokalemic Challenge with Isoform and Muscle Type Specificity. Journal of Biological Chemistry, 1996, 271, 32653-32658.	3.4	70
23	Angiotensin II stimulates trafficking of NHE3, NaPi2, and associated proteins into the proximal tubule microvilli. American Journal of Physiology - Renal Physiology, 2010, 298, F177-F186.	2.7	69
24	Acute hypertension provokes internalization of proximal tubule NHE3 without inhibition of transport activity. American Journal of Physiology - Renal Physiology, 2002, 282, F730-F740.	2.7	68
25	The physiological role of glucagon-like peptide-1 in the regulation of renal function. American Journal of Physiology - Renal Physiology, 2016, 310, F123-F127.	2.7	68
26	Functional implications of sexual dimorphism of transporter patterns along the rat proximal tubule: modeling and analysis. American Journal of Physiology - Renal Physiology, 2018, 315, F692-F700.	2.7	68
27	In vivo PTH provokes apical NHE3 and NaPi2 redistribution and Na-K-ATPase inhibition. American Journal of Physiology - Renal Physiology, 1999, 276, F711-F719.	2.7	66
28	Redistribution of distal tubule Na <sup>+</sup> -Cl <sup>-</sup> cotransporter (NCC) in response to a high-salt diet. American Journal of Physiology - Renal Physiology, 2006, 291, F503-F508.	2.7	63
29	Mechanisms of Pressure Natriuresis. Annals of the New York Academy of Sciences, 2003, 986, 669-677.	3.8	62
30	Cardiovascular benefits associated with higher dietary K <sup>+</sup> vs. lower dietary Na <sup>+</sup> : evidence from population and mechanistic studies. American Journal of Physiology - Endocrinology and Metabolism, 2017, 312, E348-E356.	3.5	62
31	Redistribution of Na <sup>+</sup> /H <sup>+</sup> exchanger isoform NHE3 in proximal tubules induced by acute and chronic hypertension. American Journal of Physiology - Renal Physiology, 1998, 275, F565-F575.	2.7	60
32	Functional implications of the sex differences in transporter abundance along the rat nephron: modeling and analysis. American Journal of Physiology - Renal Physiology, 2019, 317, F1462-F1474.	2.7	56
33	Sex differences in solute transport along the nephrons: effects of Na <sup>+</sup> transport inhibition. American Journal of Physiology - Renal Physiology, 2020, 319, F487-F505.	2.7	56
34	The cardiac sodium pump: structure and function. Basic Research in Cardiology, 2002, 97, 1-1.	5.9	54
35	Effects of ACE inhibition on proximal tubule sodium transport. American Journal of Physiology - Renal Physiology, 2006, 290, F854-F863.	2.7	54
36	Proximal tubule specific knockout of the Na <sup>+</sup> /H <sup>+</sup> exchanger NHE3: effects on bicarbonate absorption and ammonium excretion. Journal of Molecular Medicine, 2013, 91, 951-963.	3.9	54

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37	Proximal tubule Na transporter responses are the same during acute and chronic hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 279, F358-F369.	2.7	53
38	Evidence for gut factor in K <sup>+</sup> homeostasis. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F541-F547.	2.7	51
39	Collecting duct prorenin receptor knockout reduces renal function, increases sodium excretion, and mitigates renal responses in ANG II-induced hypertensive mice. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F1243-F1253.	2.7	49
40	Renal Angiotensin-Converting Enzyme Is Essential for the Hypertension Induced by Nitric Oxide Synthesis Inhibition. <i>Journal of the American Society of Nephrology: JASN</i> , 2014, 25, 2752-2763.	6.1	48
41	Short-term K <sup>+</sup> deprivation provokes insulin resistance of cellular K <sup>+</sup> uptake revealed with the K <sup>+</sup> clamp. <i>American Journal of Physiology - Renal Physiology</i> , 2001, 280, F95-F102.	2.7	47
42	Angiotensin II clamp prevents the second step in renal apical NHE3 internalization during acute hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, F1142-F1150.	2.7	42
43	Renal NHE3 and NaPi2 partition into distinct membrane domains. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C900-C910.	4.6	41
44	Effects of K <sup>+</sup> -deficient diets with and without NaCl supplementation on Na <sup>+</sup> , K <sup>+</sup> , and H <sub>2</sub> O transporters' abundance along the nephron. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, F92-F104.	2.7	40
45	Local pH domains regulate NHE3-mediated Na <sup>+</sup> reabsorption in the renal proximal tubule. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 307, F1249-F1262.	2.7	40
46	Potassium Supplementation Prevents Sodium Chloride Cotransporter Stimulation During Angiotensin II Hypertension. <i>Hypertension</i> , 2016, 68, 904-912.	2.7	40
47	Characteristics of antibodies to guinea pig (Na <sup>+</sup> +K <sup>+</sup> )-adenosine triphosphatase and their use in cell-free synthesis studies. <i>Journal of Membrane Biology</i> , 1982, 69, 13-22.	2.1	39
48	Modest dietary K <sup>+</sup> restriction provokes insulin resistance of cellular K <sup>+</sup> uptake and phosphorylation of renal outer medulla K <sup>+</sup> channel without fall in plasma K <sup>+</sup> concentration. <i>American Journal of Physiology - Cell Physiology</i> , 2006, 290, C1355-C1363.	4.6	39
49	Redistribution of Myosin VI from Top to Base of Proximal Tubule Microvilli during Acute Hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2005, 16, 2890-2896.	6.1	38
50	Maintaining Balance Under Pressure. <i>Hypertension</i> , 2015, 66, 450-455.	2.7	37
51	Short-term nonpressor angiotensin II infusion stimulates sodium transporters in proximal tubule and distal nephron. <i>Physiological Reports</i> , 2015, 3, e12496.	1.7	36
52	Sex differences in solute and water handling in the human kidney: Modeling and functional implications. <i>IScience</i> , 2021, 24, 102667.	4.1	35
53	Electrolyte and transporter responses to angiotensin II induced hypertension in female and male rats and mice. <i>Acta Physiologica</i> , 2020, 229, e13448.	3.8	34
54	Reducing blood pressure in SHR with enalapril provokes redistribution of NHE3, NaPi2, and NCC and decreases NaPi2 and ACE abundance. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F1197-F1208.	2.7	33

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55	Effects of ACE inhibition and ANG II stimulation on renal Na-Cl cotransporter distribution, phosphorylation, and membrane complex properties. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 304, C147-C163.	4.6	33
56	The Absence of the ACE N-Domain Decreases Renal Inflammation and Facilitates Sodium Excretion during Diabetic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2546-2561.	6.1	30
57	Temporal responses of oxidative vs. glycolytic skeletal muscles to K <sup>+</sup> deprivation: Na <sup>+</sup> pumps and cell cations. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 276, C1411-C1419.	4.6	29
58	Independent Regulation of In Vivo Insulin Action on Glucose Versus K <sup>+</sup> Uptake by Dietary Fat and K <sup>+</sup> Content. <i>Diabetes</i> , 2002, 51, 915-920.	0.6	28
59	Acute hypertension provokes acute trafficking of distal tubule Na-Cl cotransporter (NCC) to subapical cytoplasmic vesicles. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F810-F818.	2.7	28
60	Dexamethasone treatment causes resistance to insulin-stimulated cellular potassium uptake in the rat. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C1229-C1237.	4.6	26
61	Renal Generation of Angiotensin II and the Pathogenesis of Hypertension. <i>Current Hypertension Reports</i> , 2014, 16, 477.	3.5	26
62	Chronic renal injury-induced hypertension alters renal NHE3 distribution and abundance. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, F1056-F1065.	2.7	25
63	How does potassium supplementation lower blood pressure?. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 302, F1224-F1225.	2.7	24
64	Report of the National Heart, Lung, and Blood Institute Working Group on Hypertension. <i>Hypertension</i> , 2020, 75, 902-917.	2.7	24
65	Potassium homeostasis: sensors, mediators, and targets. <i>Pflugers Archiv European Journal of Physiology</i> , 2022, 474, 853-867.	2.8	23
66	Need to quickly excrete K <sup>+</sup> ? Turn off NCC. <i>Kidney International</i> , 2013, 83, 779-782.	5.2	22
67	Salt Sensitivity in Response to Renal Injury Requires Renal Angiotensin-Converting Enzyme. <i>Hypertension</i> , 2015, 66, 534-542.	2.7	22
68	Diuretic response to acute hypertension is blunted during angiotensin II clamp. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 283, R837-R842.	1.8	21
69	Responses of proximal tubule sodium transporters to acute injury-induced hypertension. <i>American Journal of Physiology - Renal Physiology</i> , 2003, 284, F313-F322.	2.7	20
70	Collecting Duct Nitric Oxide Synthase 1 Activation Maintains Sodium Homeostasis During High Sodium Intake Through Suppression of Aldosterone and Renal Angiotensin II Pathways. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	20
71	Downstream Shift in Sodium Pump Activity along the Nephron during Acute Hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2001, 12, 2231-2240.	6.1	20
72	Blood pressure regulation by the angiotensin type 1 receptor in the proximal tubule. <i>Current Opinion in Nephrology and Hypertension</i> , 2018, 27, 1-7.	2.0	19

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73	Isolation of partial cDNAs for rat liver and muscle glycogen phosphorylase isozymes. <i>FEBS Letters</i> , 1986, 202, 282-288.	2.8	17
74	Renal Collectrin Protects against Salt-Sensitive Hypertension and Is Downregulated by Angiotensin II. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 1826-1837.	6.1	17
75	Sex-specific adaptations to high-salt diet preserve electrolyte homeostasis with distinct sodium transporter profiles. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 321, C897-C909.	4.6	17
76	Proximal tubule NHE3 activity is inhibited by beta-arrestin-biased angiotensin II type 1 receptor signaling. <i>American Journal of Physiology - Cell Physiology</i> , 2015, 309, C541-C550.	4.6	15
77	Renal NCC is unchanged in the midpregnant rat and decreased in the late pregnant rat despite avid renal Na <sup>+</sup> retention. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F63-F70.	2.7	15
78	The intrarenal generation of angiotensin II is required for experimental hypertension. <i>Current Opinion in Pharmacology</i> , 2015, 21, 73-81.	3.5	14
79	Coordinate adaptations of skeletal muscle and kidney to maintain extracellular [K <sup>+</sup> ] during K <sup>+</sup> -deficient diet. <i>American Journal of Physiology - Cell Physiology</i> , 2020, 319, C757-C770.	4.6	14
80	Metabolic Basis of Solute Transport. , 2012, , 138-157.		13
81	Phenol injury-induced hypertension stimulates proximal tubule Na <sup>+</sup> /H <sup>+</sup> exchanger activity. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F1543-F1550.	2.7	12
82	Renal tubular angiotensin converting enzyme is responsible for nitro-L-arginine methyl ester (L-NAME)-induced salt sensitivity. <i>Kidney International</i> , 2017, 91, 856-867.	5.2	12
83	Impact of angiotensin II-mediated stimulation of sodium transporters in the nephron assessed by computational modeling. <i>American Journal of Physiology - Renal Physiology</i> , 2019, 317, F1656-F1668.	2.7	12
84	β <sub>2</sub> -Adrenoceptors Modulate Renal Sympathetic Neurotransmission and Protect against Hypertensive Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 783-798.	6.1	9
85	Paradoxical activation of the sodium chloride cotransporter (NCC) without hypertension in kidney deficient in a regulatory subunit of Na,K-ATPase, FXD2. <i>Physiological Reports</i> , 2014, 2, e12226.	1.7	8
86	Immunodetection of Na,K-ATPase in guinea-pig retinal layers, cornea and lens. <i>Experimental Eye Research</i> , 1985, 40, 667-674.	2.6	7
87	Motoring down the microvilli. Focus on PTH-induced internalization of apical membrane NaPi2a: role of actin and myosin VI. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 297, C1331-C1332.	4.6	6
88	ISN Forefronts Symposium 2015: Maintaining Balance Under Pressure—Hypertension and the Proximal Tubule. <i>Kidney International Reports</i> , 2016, 1, 166-176.	0.8	6
89	Local and downstream actions of proximal tubule angiotensin II signaling on Na <sup>+</sup> transporters in the mouse nephron. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 321, F69-F81.	2.7	5
90	Vascular control of kidney epithelial transporters. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F1080-F1092.	2.7	4

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91	Of mice and men: modeling cardiovascular complexity in diabetes. Focus on "Mitochondrial inefficiencies and anoxic ATP hydrolysis capacities in diabetic rat heart". American Journal of Physiology - Cell Physiology, 2014, 307, C497-C498.	4.6	3
92	Moving the Needle on Hypertension. Nutrition Today, 2019, 54, 248-256.	1.0	3
93	Renal responses to short term nonpressor AngII ± intrarenal RAS blockade in rats. FASEB Journal, 2013, 27, 909.2.	0.5	3
94	Estimating In Vivo Potassium Distribution and Fluxes with Stable Potassium Isotopes. American Journal of Physiology - Cell Physiology, 2022, , .	4.6	2
95	Impact of Casein- versus Grain-Based Diets on Rat Renal Sodium Transporters'™ Abundance and Regulation. Kidney360, 2021, 2, 519-523.	2.1	1
96	A New Stable Isotope Method for Quantifying Potassium Distribution and Fluxes <i>In Vivo</i>. FASEB Journal, 2021, 35, .	0.5	0
97	Angiotensin II stimulated phosphorylation and trafficking of Na+â€cotransporter (NCC) into apical plasma membrane (APM) inhibited by Tempol. FASEB Journal, 2011, 25, .	0.5	0
98	Renal sympathetic nerve activity (RSNA) and adrenergic stimulation increase Naâ€cotransporter (NCC) phosphorylation and trafficking to the apical plasma membrane (APM). FASEB Journal, 2011, 25, 1078.6.	0.5	0
99	Effects of Kâ€deficient diets ± Na supplementation on Na, K, and H 2 O transporters'™ abundance along the nephron. FASEB Journal, 2012, 26, 1103.14.	0.5	0
100	Blue native PAGE resolution of renal sodium transporters. FASEB Journal, 2012, 26, 1066.4.	0.5	0
101	Blunted hypertensive response to Ang II infusion in IFNâ€ knockout mice: molecular mechanisms. FASEB Journal, 2013, 27, 906.12.	0.5	0
102	Sodium balance and resistance to Ang IIâ€induced hypertension, despite NCC and NKCC2 activation, in mice with global deletion of Na,Kâ€ATPase regulatory subunit FXD2. FASEB Journal, 2015, 29, 960.7.	0.5	0
103	Adaptation to K + deficiency in mouse: coordinate regulation of muscle and kidney electrolyte transporters. FASEB Journal, 2019, 33, 575.3.	0.5	0
104	Mechanism and Pathophysiology. Nephrology Self-assessment Program: NephSAP, 2020, 19, 43-57.	3.0	0
105	Acute Pressure Natriuresis and Na<sup>+</sup> Transporter Regulation More Robust in Female vs. Male Sprague Dawley Rats. FASEB Journal, 2020, 34, 1-1.	0.5	0
106	Exploring Sex Differences in Renal Sodium Transporters with Four Core Genotype (FCG) Model. FASEB Journal, 2022, 36, .	0.5	0