

Robin A Felder

List of Publications by Citations

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131
papers

4,802
citations

42
h-index

64
g-index

141
ext. papers

5,242
ext. citations

5.8
avg, IF

5.01
L-index

#	Paper	IF	Citations
131	3D cell culture opens new dimensions in cell-based assays. <i>Drug Discovery Today</i> , 2009 , 14, 102-7	8.8	236
130	G protein-coupled receptor kinase 4 gene variants in human essential hypertension. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 3872-7	11.5	232
129	Multilocus analysis of hypertension: a hierarchical approach. <i>Human Heredity</i> , 2004 , 57, 28-38	1.1	139
128	Dopamine-1 receptor coupling defect in renal proximal tubule cells in hypertension. <i>Hypertension</i> , 1999 , 33, 1036-42	8.5	131
127	Combinations of variations in multiple genes are associated with hypertension. <i>Hypertension</i> , 2000 , 36, 2-6	8.5	123
126	Behavioral patterns of older-adults in assisted living. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2008 , 12, 387-98		99
125	Single-nucleotide polymorphisms for diagnosis of salt-sensitive hypertension. <i>Clinical Chemistry</i> , 2006 , 52, 352-60	5.5	98
124	Functional genomics of the dopaminergic system in hypertension. <i>Physiological Genomics</i> , 2004 , 19, 233-46	4.6	97
123	Salt sensitivity is associated with insulin resistance, sympathetic overactivity, and decreased suppression of circulating renin activity in lean patients with essential hypertension. <i>American Journal of Clinical Nutrition</i> , 2010 , 92, 77-82	7	90
122	Activation of D3 dopamine receptor decreases angiotensin II type 1 receptor expression in rat renal proximal tubule cells. <i>Circulation Research</i> , 2006 , 99, 494-500	15.7	88
121	Perturbation of D1 dopamine and AT1 receptor interaction in spontaneously hypertensive rats. <i>Hypertension</i> , 2003 , 42, 787-92	8.5	87
120	Impact of monitoring technology in assisted living: outcome pilot. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2006 , 10, 192-8		84
119	Role of dopamine receptors in the kidney in the regulation of blood pressure. <i>Current Opinion in Nephrology and Hypertension</i> , 2002 , 11, 87-92	3.5	82
118	Genotyping of Essential Hypertension Single-Nucleotide Polymorphisms by a Homogeneous PCR Method with Universal Energy Transfer Primers. <i>Clinical Chemistry</i> , 2002 , 48, 2131-2140	5.5	82
117	Differential human renal tubular responses to dopamine type 1 receptor stimulation are determined by blood pressure status. <i>Hypertension</i> , 1997 , 29, 115-22	8.5	81
116	Diagnostic tools for hypertension and salt sensitivity testing. <i>Current Opinion in Nephrology and Hypertension</i> , 2013 , 22, 65-76	3.5	77
115	Interaction of angiotensin II type 1 and D5 dopamine receptors in renal proximal tubule cells. <i>Hypertension</i> , 2005 , 45, 804-10	8.5	77

114	Desensitization of human renal D1 dopamine receptors by G protein-coupled receptor kinase 4. <i>Kidney International</i> , 2002 , 62, 790-8	9.9	76
113	Hyperglycemia causes cellular senescence via a SGLT2- and p21-dependent pathway in proximal tubules in the early stage of diabetic nephropathy. <i>Journal of Diabetes and Its Complications</i> , 2014 , 28, 604-11	3.2	72
112	Salt sensitivity of blood pressure is associated with polymorphisms in the sodium-bicarbonate cotransporter. <i>Hypertension</i> , 2012 , 60, 1359-66	8.5	71
111	Mechanisms of disease: the role of GRK4 in the etiology of essential hypertension and salt sensitivity. <i>Nature Clinical Practice Nephrology</i> , 2006 , 2, 637-50		71
110	Intrarenal dopamine production and distribution in the rat. Physiological control of sodium excretion. <i>Hypertension</i> , 1997 , 29, 228-34	8.5	68
109	Lipid rafts keep NADPH oxidase in the inactive state in human renal proximal tubule cells. <i>Hypertension</i> , 2008 , 51, 481-7	8.5	68
108	Exosomal transfer from human renal proximal tubule cells to distal tubule and collecting duct cells. <i>Clinical Biochemistry</i> , 2014 , 47, 89-94	3.5	64
107	D1 dopamine receptor signaling involves caveolin-2 in HEK-293 cells. <i>Kidney International</i> , 2004 , 66, 2167-80	8.5	64
106	Expression of the dopamine D3 receptor protein in the rat kidney. <i>Hypertension</i> , 1998 , 32, 886-95	8.5	64
105	Dopamine 5 receptor mediates Ang II type 1 receptor degradation via a ubiquitin-proteasome pathway in mice and human cells. <i>Journal of Clinical Investigation</i> , 2008 , 118, 2180-9	15.9	64
104	Angiotensin II regulation of AT1 and D3 dopamine receptors in renal proximal tubule cells of SHR. <i>Hypertension</i> , 2003 , 41, 724-9	8.5	60
103	Intrarenal dopamine D1-like receptor stimulation induces natriuresis via an angiotensin type-2 receptor mechanism. <i>Hypertension</i> , 2007 , 49, 155-61	8.5	59
102	Regulation of blood pressure by dopamine receptors. <i>Nephron Physiology</i> , 2003 , 95, p19-27		59
101	Dopamine D1A receptor regulation of phospholipase C isoform. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19503-8	5.4	54
100	Selective inhibition of the renal dopamine subtype D1A receptor induces antinatriuresis in conscious rats. <i>Hypertension</i> , 1999 , 33, 504-10	8.5	53
99	Localization of the dopamine D1 receptor protein in the human heart and kidney. <i>Hypertension</i> , 1997 , 30, 725-9	8.5	53
98	G protein-coupled receptor kinase 4 (GRK4) regulates the phosphorylation and function of the dopamine D3 receptor. <i>Journal of Biological Chemistry</i> , 2009 , 284, 21425-34	5.4	52
97	Amelioration of genetic hypertension by suppression of renal G protein-coupled receptor kinase type 4 expression. <i>Hypertension</i> , 2006 , 47, 1131-9	8.5	52

96	Dopamine and the kidney: a role in hypertension?. <i>Current Opinion in Nephrology and Hypertension</i> , 2003 , 12, 189-94	3.5	52
95	Urinary exosome miRNome analysis and its applications to salt sensitivity of blood pressure. <i>Clinical Biochemistry</i> , 2013 , 46, 1131-1134	3.5	51
94	Dopamine D1 receptor augmentation of D3 receptor action in rat aortic or mesenteric vascular smooth muscles. <i>Hypertension</i> , 2004 , 43, 673-9	8.5	51
93	Galpha12- and Galpha13-protein subunit linkage of D5 dopamine receptors in the nephron. <i>Hypertension</i> , 2003 , 41, 604-10	8.5	51
92	Renal protein phosphatase 2A activity and spontaneous hypertension in rats. <i>Hypertension</i> , 2000 , 36, 1053-8	8.5	45
91	Expression of the subtype 1A dopamine receptor in the rat heart. <i>Hypertension</i> , 1996 , 27, 693-703	8.5	43
90	Genotyping of essential hypertension single-nucleotide polymorphisms by a homogeneous PCR method with universal energy transfer primers. <i>Clinical Chemistry</i> , 2002 , 48, 2131-40	5.5	43
89	Dopamine, kidney, and hypertension: studies in dopamine receptor knockout mice. <i>Pediatric Nephrology</i> , 2008 , 23, 2131-46	3.2	41
88	Paraoxonase 2 decreases renal reactive oxygen species production, lowers blood pressure, and mediates dopamine D2 receptor-induced inhibition of NADPH oxidase. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 437-46	7.8	40
87	Production and role of extracellular guanosine cyclic 3Q5Qmonophosphate in sodium uptake in human proximal tubule cells. <i>Hypertension</i> , 2004 , 43, 286-91	8.5	40
86	Renal dopamine and sodium homeostasis. <i>Current Hypertension Reports</i> , 2000 , 2, 174-83	4.7	39
85	Dopamine D1A receptors and renin release in rat juxtaglomerular cells. <i>Hypertension</i> , 1997 , 29, 962-8	8.5	39
84	Differential D1 and D5 receptor regulation and degradation of the angiotensin type 1 receptor. <i>Hypertension</i> , 2008 , 51, 360-6	8.5	38
83	Dopamine and angiotensin type 2 receptors cooperatively inhibit sodium transport in human renal proximal tubule cells. <i>Hypertension</i> , 2012 , 60, 396-403	8.5	37
82	High body mass index is an important risk factor for the development of type 2 diabetes. <i>Internal Medicine</i> , 2012 , 51, 1821-6	1.1	36
81	Renal interstitial guanosine cyclic 3Q5Qmonophosphate mediates pressure-natriuresis via protein kinase G. <i>Hypertension</i> , 2004 , 43, 1133-9	8.5	36
80	Unique role of NADPH oxidase 5 in oxidative stress in human renal proximal tubule cells. <i>Redox Biology</i> , 2014 , 2, 570-9	11.3	34
79	Prospective evaluation of maternal serum human chorionic gonadotropin levels in 3428 pregnancies. <i>American Journal of Obstetrics and Gynecology</i> , 1991 , 165, 663-7	6.4	34

78	Increased mitochondrial activity in renal proximal tubule cells from young spontaneously hypertensive rats. <i>Kidney International</i> , 2014 , 85, 561-9	9.9	32
77	MiR-217 mediates the protective effects of the dopamine D2 receptor on fibrosis in human renal proximal tubule cells. <i>Hypertension</i> , 2015 , 65, 1118-25	8.5	31
76	Caveolin-1 and dopamine-mediated internalization of NaKATPase in human renal proximal tubule cells. <i>Hypertension</i> , 2009 , 54, 1070-6	8.5	31
75	D1-like receptors regulate NADPH oxidase activity and subunit expression in lipid raft microdomains of renal proximal tubule cells. <i>Hypertension</i> , 2009 , 53, 1054-61	8.5	31
74	Dopamine receptor-coupling defect in hypertension. <i>Current Hypertension Reports</i> , 2002 , 4, 237-44	4.7	31
73	Altered AT1 receptor regulation of ETB receptors in renal proximal tubule cells of spontaneously hypertensive rats. <i>Hypertension</i> , 2005 , 46, 926-31	8.5	31
72	Rat strain effects of AT1 receptor activation on D1 dopamine receptors in immortalized renal proximal tubule cells. <i>Hypertension</i> , 2005 , 46, 799-805	8.5	30
71	HK-2 human renal proximal tubule cells as a model for G protein-coupled receptor kinase type 4-mediated dopamine 1 receptor uncoupling. <i>Hypertension</i> , 2010 , 56, 505-11	8.5	28
70	D3 dopamine receptor directly interacts with D1 dopamine receptor in immortalized renal proximal tubule cells. <i>Hypertension</i> , 2006 , 47, 573-9	8.5	28
69	Differential effects of angiotensin II type-1 receptor antisense oligonucleotides on renal function in spontaneously hypertensive rats. <i>Hypertension</i> , 2005 , 46, 58-65	8.5	27
68	Alpha-adrenoceptors in the developing kidney. <i>Pediatric Research</i> , 1983 , 17, 177-80	3.2	27
67	G protein-coupled receptor kinase 4: role in blood pressure regulation. <i>Hypertension</i> , 2008 , 51, 1449-55	8.5	24
66	Aberrant D1 and D3 dopamine receptor transregulation in hypertension. <i>Hypertension</i> , 2004 , 43, 654-60	8.5	24
65	Challenges and Opportunities in Implementing Total Laboratory Automation. <i>Clinical Chemistry</i> , 2018 , 64, 259-264	5.5	23
64	The cooperative roles of the dopamine receptors, D1R and D5R, on the regulation of renal sodium transport. <i>Kidney International</i> , 2014 , 86, 118-26	9.9	23
63	Sorting nexin 1 loss results in D5 dopamine receptor dysfunction in human renal proximal tubule cells and hypertension in mice. <i>Journal of Biological Chemistry</i> , 2013 , 288, 152-63	5.4	23
62	Isolation, growth, and characterization of human renal epithelial cells using traditional and 3D methods. <i>Methods in Molecular Biology</i> , 2013 , 945, 329-45	1.4	22
61	Modular workcells: modern methods for laboratory automation. <i>Clinica Chimica Acta</i> , 1998 , 278, 257-67	6.2	22

60	Aberrant ETB receptor regulation of AT receptors in immortalized renal proximal tubule cells of spontaneously hypertensive rats. <i>Kidney International</i> , 2005 , 68, 623-31	9.9	22
59	Human GRK4 Δ 42V Variant Promotes Angiotensin II Type I Receptor-Mediated Hypertension via Renal Histone Deacetylase Type 1 Inhibition. <i>Hypertension</i> , 2016 , 67, 325-34	8.5	20
58	Differential dopamine receptor subtype regulation of adenylyl cyclases in lipid rafts in human embryonic kidney and renal proximal tubule cells. <i>Cellular Signalling</i> , 2014 , 26, 2521-9	4.9	20
57	Single-nucleotide polymorphisms of the dopamine D2 receptor increase inflammation and fibrosis in human renal proximal tubule cells. <i>Hypertension</i> , 2014 , 63, e74-80	8.5	20
56	A linear relationship between the ex-vivo sodium mediated expression of two sodium regulatory pathways as a surrogate marker of salt sensitivity of blood pressure in exfoliated human renal proximal tubule cells: the virtual renal biopsy. <i>Clinica Chimica Acta</i> , 2013 , 421, 236-42	6.2	20
55	Achievement status toward goal blood pressure levels and healthy lifestyles among Japanese hypertensive patients; cross-sectional survey results from Fukushima Research of Hypertension (FRESH). <i>Internal Medicine</i> , 2011 , 50, 1149-56	1.1	20
54	Simulation of robotic courier deliveries in hospital distribution services. <i>Health Care Management Science</i> , 2000 , 3, 201-13	4	19
53	The Synergistic Roles of Cholecystokinin B and Dopamine D5 Receptors on the Regulation of Renal Sodium Excretion. <i>PLoS ONE</i> , 2016 , 11, e0146641	3.7	19
52	The importance of the gastrosal axis in the control of body sodium homeostasis. <i>Experimental Physiology</i> , 2016 , 101, 465-70	2.4	18
51	A Review of Cell Culture Automation. <i>Journal of the Association for Laboratory Automation</i> , 2002 , 7, 56-62		18
50	Dopamine receptors in the developing sheep kidney. <i>Pediatric Nephrology</i> , 1988 , 2, 156-62	3.2	18
49	The Dopamine D Receptor and Angiotensin II Type-2 Receptor are Required for Inhibition of Sodium Transport Through a Protein Phosphatase 2A Pathway. <i>Hypertension</i> , 2019 , 73, 1258-1265	8.5	17
48	Dopamine D1 receptor-mediated inhibition of NADPH oxidase activity in human kidney cells occurs via protein kinase A-protein kinase C cross talk. <i>Free Radical Biology and Medicine</i> , 2011 , 50, 832-40	7.8	16
47	Inhibitory effect of ETB receptor on Na(+)-K(+) ATPase activity by extracellular Ca(2+) entry and Ca(2+) release from the endoplasmic reticulum in renal proximal tubule cells. <i>Hypertension Research</i> , 2009 , 32, 846-52	4.7	16
46	Dopamine D3 receptor inhibits the ubiquitin-specific peptidase 48 to promote NHE3 degradation. <i>FASEB Journal</i> , 2014 , 28, 1422-34	0.9	15
45	Effects of decreased renal cortical expression of G protein-coupled receptor kinase 4 and angiotensin type 1 receptors in rats. <i>Hypertension Research</i> , 2008 , 31, 1455-64	4.7	14
44	The sodium-bicarbonate cotransporter NBCe2 (slc4a5) expressed in human renal proximal tubules shows increased apical expression under high-salt conditions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R1447-59	3.2	14
43	POMC biosynthesis in the intermediate lobe of the spontaneously hypertensive rat. <i>American Journal of Hypertension</i> , 1989 , 2, 618-24	2.3	13

42	Loss of renal SNX5 results in impaired IDE activity and insulin resistance in mice. <i>Diabetologia</i> , 2018 , 61, 727-737	10.3	13
41	Ontogeny of myocardial adrenoceptors II. Alpha adrenoceptors. <i>Pediatric Research</i> , 1982 , 16, 340-2	3.2	12
40	Gastrorenal Axis. <i>Hypertension</i> , 2016 , 67, 1056-63	8.5	12
39	Robotic automation performs a nested RT-PCR analysis for HCV without introducing sample contamination. <i>Clinica Chimica Acta</i> , 2000 , 290, 199-211	6.2	11
38	Dopaminergic defect in hypertension. <i>Pediatric Nephrology</i> , 1993 , 7, 859-64	3.2	11
37	Robotic automation of coagulation analysis. <i>Clinica Chimica Acta</i> , 1998 , 278, 269-79	6.2	10
36	What we can learn from the selective manipulation of dopaminergic receptors about the pathogenesis and treatment of hypertension?. <i>Current Opinion in Nephrology and Hypertension</i> , 1996 , 5, 447-51	3.5	10
35	Dopamine D receptor modulates Wnt expression and control of cell proliferation. <i>Scientific Reports</i> , 2019 , 9, 16861	4.9	9
34	Medical automation--a technologically enhanced work environment to reduce the burden of care on nursing staff and a solution to the health care cost crisis. <i>Nursing Outlook</i> , 2003 , 51, S5-10	2.7	8
33	Sodium bicarbonate cotransporter NBCe2 gene variants increase sodium and bicarbonate transport in human renal proximal tubule cells. <i>PLoS ONE</i> , 2018 , 13, e0189464	3.7	8
32	D3 Dopamine Receptor and Essential Hypertension. <i>Current Hypertension Reviews</i> , 2006 , 2, 247-253	2.3	7
31	Alpha 1B-adrenergic receptors in rat renal microvessels. <i>Kidney International</i> , 1995 , 48, 1412-9	9.9	7
30	The Renal Sodium Bicarbonate Cotransporter NBCe2: Is It a Major Contributor to Sodium and pH Homeostasis?. <i>Current Hypertension Reports</i> , 2016 , 18, 71	4.7	6
29	A novel role for c-Myc in G protein-coupled receptor kinase 4 (GRK4) transcriptional regulation in human kidney proximal tubule cells. <i>Hypertension</i> , 2013 , 61, 1021-7	8.5	6
28	Developmental regulation of the alpha 1B-adrenoceptor in the sheep kidney. <i>Pediatric Research</i> , 1993 , 34, 124-8	3.2	6
27	The inositol pyrophosphate 5-InsP drives sodium-potassium pump degradation by relieving an autoinhibitory domain of PI3K p85. <i>Science Advances</i> , 2020 , 6,	14.3	6
26	Stomach gastrin is regulated by sodium via PPAR- δ and dopamine D1 receptor. <i>Journal of Molecular Endocrinology</i> , 2020 , 64, 53-65	4.5	5
25	Sorting nexin 1 loss results in increased oxidative stress and hypertension. <i>FASEB Journal</i> , 2020 , 34, 7941-7957	17.9	5

24	Lipid rafts are required for effective renal D dopamine receptor function. <i>FASEB Journal</i> , 2020 , 34, 6999-7017	4	17
23	Process evaluation of an open architecture real-time molecular laboratory platform. <i>Journal of the Association for Laboratory Automation</i> , 2014 , 19, 468-73	4	16
22	Characteristics of antihypertensive medication and change of prescription over 1 year of follow up in Japan: Fukushima Research of Hypertension (FRESH). <i>American Journal of Hypertension</i> , 2010 , 23, 1299-305	3	15
21	Molecular biology of adrenergic and dopamine receptors and the study of developmental nephrology. <i>Pediatric Nephrology</i> , 1990 , 4, 679-85	3.2	14
20	Dopamine D receptor-mediated decreases in mitochondrial reactive oxygen species production are cAMP and autophagy dependent. <i>Hypertension Research</i> , 2021 , 44, 628-641	4.7	13
19	Evaluation of an automated preanalytical robotic workstation at two academic health centers. <i>Clinical Chemistry</i> , 2002 , 48, 540-8	5.5	12
18	Association between control to target blood pressures and healthy lifestyle factors among Japanese hypertensive patients: longitudinal data analysis from Fukushima Research of Hypertension (FRESH). <i>Obesity Research and Clinical Practice</i> , 2014 , 8, e364-73	5.4	11
17	Replicating Human Tumor Biology in Vitro. <i>Genetic Engineering and Biotechnology News</i> , 2013 , 33, 19-19	0.6	10
16	Association between lifestyle-related disorders and visceral fat mass in Japanese males: a hospital based cross-sectional study. <i>Environmental Health and Preventive Medicine</i> , 2014 , 19, 429-35	4.2	9
15	A Pioneering Company in Laboratory Automation. <i>Journal of the Association for Laboratory Automation</i> , 1998 , 3, 12-16	1	8
14	Development of Simple Devices for Control of Temperature above and below Ambient on Simple Pipetting Stations. <i>Journal of the Association for Laboratory Automation</i> , 1998 , 3, 38-42	1	7
13	Quantitation of selective dopaminergic drugs in plasma by gas chromatography-mass spectrometry following solid-phase extraction. <i>Biomedical Applications</i> , 1989 , 496, 201-8	1	
12	The Hypertension Related Gene G-Protein Coupled Receptor Kinase 4 Contributes to Breast Cancer Proliferation. <i>Breast Cancer: Basic and Clinical Research</i> , 2021 , 15, 11782234211015753	2.2	
11	Push for patient safety is nudge for automation. <i>CAP Today</i> , 2003 , 17, 33-6, 38, 40 passim	1	
10	Developments in Microplate Automation. <i>Journal of the Association for Laboratory Automation</i> , 2002 , 7, 67-72	0	
9	Medical Mobile Robotics: An Industry Update. <i>Journal of the Association for Laboratory Automation</i> , 2000 , 5, 26-29	0	
8	Comparative microsomal proteomics of a model lung cancer cell line NCI-H23 reveals distinct differences between molecular profiles of 3D and 2D cultured cells. <i>Oncotarget</i> , 2021 , 12, 2022-2038	3.3	
7	Epithelial Sodium Channel Alpha Subunit (ENaC) Is Associated with Inverse Salt Sensitivity of Blood Pressure. <i>Biomedicines</i> , 2022 , 10, 981	4.8	

- 6 Automating Your Existing Clinical Instruments: Allows Easy Interface of Mechanical and Electronic Instruments to Specimen Transport Systems. *Laboratory Automation News*, **1997**, 2, 24-29
- 5 Software Implementation of Biological Repository for Human Genetic Material. *Journal of the Association for Laboratory Automation*, **2000**, 5, 106-108
- 4 Automation Solutions ¶t¶ all about Time: An In-Depth Expose of CRS Robotics Inc., Toronto, Canada. *Journal of the Association for Laboratory Automation*, **2000**, 5, 32-36
- 3 Biochip Technology of the Future ¶Today!. *Journal of the Association for Laboratory Automation*, **1999**, 4, 86-89
- 2 High-level expression of rat D1A dopamine receptor cDNA in mouse fibroblast LTK- cells by n-butyrate. *Clinical and Experimental Pharmacology and Physiology*, **1996**, 23, 150-4 3
- 1 Human GRK4 variants regulate renal angiotensin AT1 receptor expression. *FASEB Journal*, **2011**, 25, 1041-32