Robin A Felder

List of Publications by Year
in descending order

137 papers	5,614 citations	57631 44 h-index	91712 69 g-index
141 all docs	141 docs citations	141 times ranked	4359 citing authors

#	Article	IF	Citations
1	3D cell culture opens new dimensions in cell-based assays. Drug Discovery Today, 2009, 14, 102-107.	3.2	283
2	G protein-coupled receptor kinase 4 gene variants in human essential hypertension. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3872-3877.	3.3	251
3	Multilocus Analysis of Hypertension: A Hierarchical Approach. Human Heredity, 2004, 57, 28-38.	0.4	146
4	Dopamine-1 Receptor Coupling Defect in Renal Proximal Tubule Cells in Hypertension. Hypertension, 1999, 33, 1036-1042.	1.3	140
5	Combinations of Variations in Multiple Genes Are Associated With Hypertension. Hypertension, 2000, 36, 2-6.	1.3	132
6	Behavioral Patterns of Older Adults in Assisted Living. IEEE Transactions on Information Technology in Biomedicine, 2008, 12, 387-398.	3.6	121
7	Impact of Monitoring Technology in Assisted Living: Outcome Pilot. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 192-198.	3.6	110
8	Functional genomics of the dopaminergic system in hypertension. Physiological Genomics, 2004, 19, 233-246.	1.0	107
9	Salt sensitivity is associated with insulin resistance, sympathetic overactivity, and decreased suppression of circulating renin activity in lean patients with essential hypertension. American Journal of Clinical Nutrition, 2010, 92, 77-82.	2.2	104
10	Single-Nucleotide Polymorphisms for Diagnosis of Salt-Sensitive Hypertension. Clinical Chemistry, 2006, 52, 352-360.	1.5	103
11	Hyperglycemia causes cellular senescence via a SGLT2- and p21-dependent pathway in proximal tubules in the early stage of diabetic nephropathy. Journal of Diabetes and Its Complications, 2014, 28, 604-611.	1.2	100
12	Role of dopamine receptors in the kidney in the regulation of blood pressure. Current Opinion in Nephrology and Hypertension, 2002, 11, 87-92.	1.0	97
13	Activation of D 3 Dopamine Receptor Decreases Angiotensin II Type 1 Receptor Expression in Rat Renal Proximal Tubule Cells. Circulation Research, 2006, 99, 494-500.	2.0	96
14	Exosomal transfer from human renal proximal tubule cells to distal tubule and collecting duct cells. Clinical Biochemistry, 2014, 47, 89-94.	0.8	96
15	Diagnostic tools for hypertension and salt sensitivity testing. Current Opinion in Nephrology and Hypertension, 2013, 22, 65-76.	1.0	94
16	Perturbation of D 1 Dopamine and AT 1 Receptor Interaction in Spontaneously Hypertensive Rats. Hypertension, 2003, 42, 787-792.	1.3	92
17	Genotyping of Essential Hypertension Single-Nucleotide Polymorphisms by a Homogeneous PCR Method with Universal Energy Transfer Primers. Clinical Chemistry, 2002, 48, 2131-2140.	1.5	89
18	Salt Sensitivity of Blood Pressure Is Associated With Polymorphisms in the Sodium-Bicarbonate Cotransporter. Hypertension, 2012, 60, 1359-1366.	1.3	88

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19	Interaction of Angiotensin II Type 1 and D 5 Dopamine Receptors in Renal Proximal Tubule Cells. Hypertension, 2005, 45, 804-810.	1.3	83
20	Differential Human Renal Tubular Responses to Dopamine Type 1 Receptor Stimulation Are Determined by Blood Pressure Status. Hypertension, 1997, 29, 115-122.	1.3	83
21	Desensitization of human renal D1 dopamine receptors by G protein-coupled receptor kinase 4. Kidney International, 2002, 62, 790-798.	2.6	82
22	Intrarenal Dopamine Production and Distribution in the Rat. Hypertension, 1997, 29, 228-234.	1.3	79
23	Lipid Rafts Keep NADPH Oxidase in the Inactive State in Human Renal Proximal Tubule Cells. Hypertension, 2008, 51, 481-487.	1.3	78
24	Mechanisms of Disease: the role of GRK4 in the etiology of essential hypertension and salt sensitivity. Nature Clinical Practice Nephrology, 2006, 2, 637-650.	2.0	76
25	Dopamine 5 receptor mediates Ang II type 1 receptor degradation via a ubiquitin-proteasome pathway in mice and human cells. Journal of Clinical Investigation, 2008, 118, 2180-9.	3.9	72
26	Expression of the Dopamine D3Receptor Protein in the Rat Kidney. Hypertension, 1998, 32, 886-895.	1.3	68
27	Regulation of Blood Pressure by Dopamine Receptors. Nephron Physiology, 2003, 95, p19-p27.	1.5	68
28	D1 dopamine receptor signaling involves caveolin-2 in HEK-293 cells. Kidney International, 2004, 66, 2167-2180.	2.6	67
29	Angiotensin II Regulation of AT1and D3Dopamine Receptors in Renal Proximal Tubule Cells of SHR. Hypertension, 2003, 41, 724-729.	1.3	65
30	Intrarenal Dopamine D 1 -Like Receptor Stimulation Induces Natriuresis via an Angiotensin Type-2 Receptor Mechanism. Hypertension, 2007, 49, 155-161.	1.3	65
31	Urinary exosome miRNome analysis and its applications to salt sensitivity of blood pressure. Clinical Biochemistry, 2013, 46, 1131-1134.	0.8	64
32	Dopamine D1A Receptor Regulation of Phospholipase C Isoform. Journal of Biological Chemistry, 1996, 271, 19503-19508.	1.6	62
33	Localization of the Dopamine D ₁ Receptor Protein in the Human Heart and Kidney. Hypertension, 1997, 30, 725-729.	1.3	62
34	Amelioration of Genetic Hypertension by Suppression of Renal G Proteinâ€“Coupled Receptor Kinase Type 4 Expression. Hypertension, 2006, 47, 1131-1139.	1.3	61
35	Dopamine and the kidney: a role in hypertension?. Current Opinion in Nephrology and Hypertension, 2003, 12, 189-194.	1.0	58
36	Dopamine D 1 Receptor Augmentation of D 3 Receptor Action in Rat Aortic or Mesenteric Vascular Smooth Muscles. Hypertension, 2004, 43, 673-679.	1.3	58

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37	G Protein-coupled Receptor Kinase 4 (GRK4) Regulates the Phosphorylation and Function of the Dopamine D3 Receptor. Journal of Biological Chemistry, 2009, 284, 21425-21434.	1.6	57
38	Selective Inhibition of the Renal Dopamine Subtype D 1A Receptor Induces Antinatriuresis in Conscious Rats. Hypertension, 1999, 33, 504-510.	1.3	55
39	GÎ±12- and GÎ±13-Protein Subunit Linkage of D5Dopamine Receptors in the Nephron. Hypertension, 2003, 41, 604-610.	1.3	55
40	Genotyping of essential hypertension single-nucleotide polymorphisms by a homogeneous PCR method with universal energy transfer primers. Clinical Chemistry, 2002, 48, 2131-40.	1.5	51
41	Expression of the Subtype 1A Dopamine Receptor in the Rat Heart. Hypertension, 1996, 27, 693-703.	1.3	49
42	Paraoxonase 2 decreases renal reactive oxygen species production, lowers blood pressure, and mediates dopamine D2 receptor-induced inhibition of NADPH oxidase. Free Radical Biology and Medicine, 2012, 53, 437-446.	1.3	48
43	Renal Protein Phosphatase 2A Activity and Spontaneous Hypertension in Rats. Hypertension, 2000, 36, 1053-1058.	1.3	47
44	Dopamine, kidney, and hypertension: studies in dopamine receptor knockout mice. Pediatric Nephrology, 2008, 23, 2131-2146.	0.9	47
45	High Body Mass Index is an Important Risk Factor for the Development of Type 2 Diabetes. Internal Medicine, 2012, 51, 1821-1826.	0.3	47
46	Renal dopamine and sodium homeostasis. Current Hypertension Reports, 2000, 2, 174-183.	1.5	45
47	Differential D ₁ and D ₅ Receptor Regulation and Degradation of the Angiotensin Type 1 Receptor. Hypertension, 2008, 51, 360-366.	1.3	44
48	Dopamine D _{1A} Receptors and Renin Release in Rat Juxtaglomerular Cells. Hypertension, 1997, 29, 962-968.	1.3	44
49	miR-217 Mediates the Protective Effects of the Dopamine D2 Receptor on Fibrosis in Human Renal Proximal Tubule Cells. Hypertension, 2015, 65, 1118-1125.	1.3	43
50	Production and Role of Extracellular Guanosine Cyclic 3â€², 5â€² Monophosphate in Sodium Uptake in Human Proximal Tubule Cells. Hypertension, 2004, 43, 286-291.	1.3	42
51	Increased mitochondrial activity in renal proximal tubule cells from young spontaneously hypertensive rats. Kidney International, 2014, 85, 561-569.	2.6	42
52	Dopamine and Angiotensin Type 2 Receptors Cooperatively Inhibit Sodium Transport in Human Renal Proximal Tubule Cells. Hypertension, 2012, 60, 396-403.	1.3	41
53	Renal Interstitial Guanosine Cyclic 3â€², 5â€²-Monophosphate Mediates Pressure-Natriuresis Via Protein Kinase G. Hypertension, 2004, 43, 1133-1139.	1.3	40
54	Unique role of NADPH oxidase 5 in oxidative stress in human renal proximal tubule cells. Redox Biology, 2014, 2, 570-579.	3.9	40

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55	Challenges and Opportunities in Implementing Total Laboratory Automation. Clinical Chemistry, 2018, 64, 259-264.	1.5	40
56	Prospective evaluation of maternal serum human chorionic gonadotropin levels in 3428 pregnancies. American Journal of Obstetrics and Gynecology, 1991, 165, 663-667.	0.7	38
57	Caveolin-1 and Dopamine-Mediated Internalization of NaKATPase in Human Renal Proximal Tubule Cells. Hypertension, 2009, 54, 1070-1076.	1.3	35
58	D ₁ -Like Receptors Regulate NADPH Oxidase Activity and Subunit Expression in Lipid Raft Microdomains of Renal Proximal Tubule Cells. Hypertension, 2009, 53, 1054-1061.	1.3	35
59	HK-2 Human Renal Proximal Tubule Cells as a Model for G Proteinâ€"Coupled Receptor Kinase Type 4â€"Mediated Dopamine 1 Receptor Uncoupling. Hypertension, 2010, 56, 505-511.	1.3	34
60	Altered AT 1 Receptor Regulation of ETB Receptors in Renal Proximal Tubule Cells of Spontaneously Hypertensive Rats. Hypertension, 2005, 46, 926-931.	1.3	33
61	Rat Strain Effects of AT 1 Receptor Activation on D 1 Dopamine Receptors in Immortalized Renal Proximal Tubule Cells. Hypertension, 2005, 46, 799-805.	1.3	33
62	D 3 Dopamine Receptor Directly Interacts With D 1 Dopamine Receptor in Immortalized Renal Proximal Tubule Cells. Hypertension, 2006, 47, 573-579.	1.3	33
63	Modular workcells: modern methods for laboratory automation. Clinica Chimica Acta, 1998, 278, 257-267.	0.5	32
64	Single-Nucleotide Polymorphisms of the Dopamine D2 Receptor Increase Inflammation and Fibrosis in Human Renal Proximal Tubule Cells. Hypertension, 2014, 63, e74-80.	1.3	32
65	Dopamine receptor-coupling defect in hypertension. Current Hypertension Reports, 2002, 4, 237-244.	1.5	31
66	Aberrant D1and D3Dopamine Receptor Transregulation in Hypertension. Hypertension, 2004, 43, 654-660.	1.3	30
67	Differential Effects of Angiotensin II Type-1 Receptor Antisense Oligonucleotides on Renal Function in Spontaneously Hypertensive Rats. Hypertension, 2005, 46, 58-65.	1.3	29
68	Alpha-Adrenoceptors in the Developing Kidney. Pediatric Research, 1983, 17, 177-180.	1.1	28
69	Human <i>GRK4Î³</i> ^{<i>142V</i>} Variant Promotes Angiotensin II Type I Receptorâ€"Mediated Hypertension via Renal Histone Deacetylase Type 1 Inhibition. Hypertension, 2016, 67, 325-334.	1.3	28
70	Sorting Nexin 1 Loss Results in D5 Dopamine Receptor Dysfunction in Human Renal Proximal Tubule Cells and Hypertension in Mice. Journal of Biological Chemistry, 2013, 288, 152-163.	1.6	27
71	The cooperative roles of the dopamine receptors, D 1 R and D 5 R, on the regulation of renal sodium transport. Kidney International, 2014, 86, 118-126.	2.6	27
72	A Review of Cell Culture Automation. Journal of the Association for Laboratory Automation, 2002, 7, 56-62.	2.8	26

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73	Isolation, Growth, and Characterization of Human Renal Epithelial Cells Using Traditional and 3D Methods. Methods in Molecular Biology, 2012, 945, 329-345.	0.4	25
74	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. Clinica Chimica Acta, 2013, 421, 236-242.	0.5	25
75	Differential dopamine receptor subtype regulation of adenylyl cyclases in lipid rafts in human embryonic kidney and renal proximal tubule cells. Cellular Signalling, 2014, 26, 2521-2529.	1.7	25
76	The Synergistic Roles of Cholecystokinin B and Dopamine D5 Receptors on the Regulation of Renal Sodium Excretion. PLoS ONE, 2016, 11, e0146641.	1.1	25
77	Simulation of robotic courier deliveries in hospital distribution services. Health Care Management Science, 2000, 3, 201-213.	1.5	24
78	G Proteinâ€“Coupled Receptor Kinase 4. Hypertension, 2008, 51, 1449-1455.	1.3	24
79	Achievement Status toward Goal Blood Pressure Levels and Healthy Lifestyles among Japanese Hypertensive Patients; Cross-sectional Survey Results from Fukushima Research of Hypertension (FRESH). Internal Medicine, 2011, 50, 1149-1156.	0.3	23
80	Dopamine D3 receptor inhibits the ubiquitinâ€specific peptidase 48 to promote NHE3 degradation. FASEB Journal, 2014, 28, 1422-1434.	0.2	23
81	The importance of the gastrorenal axis in the control of body sodium homeostasis. Experimental Physiology, 2016, 101, 465-470.	0.9	23
82	Dopamine D2 receptor modulates Wnt expression and control of cell proliferation. Scientific Reports, 2019, 9, 16861.	1.6	23
83	The Dopamine D ₁ Receptor and Angiotensin II Type-2 Receptor are Required for Inhibition of Sodium Transport Through a Protein Phosphatase 2A Pathway. Hypertension, 2019, 73, 1258-1265.	1.3	23
84	Aberrant ETB receptor regulation of AT1 receptors in immortalized renal proximal tubule cells of spontaneously hypertensive rats. Kidney International, 2005, 68, 623-631.	2.6	22
85	The sodium-bicarbonate cotransporter NBCe2 (<i>slc4a5</i>) expressed in human renal proximal tubules shows increased apical expression under high-salt conditions. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 309, R1447-R1459.	0.9	21
86	Dopamine D1 receptor-mediated inhibition of NADPH oxidase activity in human kidney cells occurs via protein kinase Aâ€“protein kinase C cross talk. Free Radical Biology and Medicine, 2011, 50, 832-840.	1.3	19
87	Preanalytical Errors Introduced by Sample-Transportation Systems: A Means to Assess Them. Clinical Chemistry, 2011, 57, 1349-1350.	1.5	19
88	Dopamine receptors in the developing sheep kidney. Pediatric Nephrology, 1988, 2, 156-162.	0.9	18
89	Inhibitory effect of ETB receptor on Na+â€“K+ ATPase activity by extracellular Ca2+ entry and Ca2+ release from the endoplasmic reticulum in renal proximal tubule cells. Hypertension Research, 2009, 32, 846-852.	1.5	18
90	Loss of renal SNX5 results in impaired IDE activity and insulin resistance in mice. Diabetologia, 2018, 61, 727-737.	2.9	16

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91	The inositol pyrophosphate 5-InsP ₇ drives sodium-potassium pump degradation by relieving an autoinhibitory domain of PI3K p85Î±. Science Advances, 2020, 6, .	4.7	16
92	Evaluation of an automated preanalytical robotic workstation at two academic health centers. Clinical Chemistry, 2002, 48, 540-8.	1.5	16
93	Dopaminergic defect in hypertension. Pediatric Nephrology, 1993, 7, 859-864.	0.9	14
94	Robotic automation of coagulation analysis. Clinica Chimica Acta, 1998, 278, 269-279.	0.5	14
95	Robotic automation performs a nested RT-PCR analysis for HCV without introducing sample contamination. Clinica Chimica Acta, 2000, 290, 199-211.	0.5	14
96	Effects of Decreased Renal Cortical Expression of G Protein-Coupled Receptor Kinase 4 and Angiotensin Type 1 Receptors in Rats. Hypertension Research, 2008, 31, 1455-1464.	1.5	14
97	POMC Biosynthesis in the Intermediate Lobe of the Spontaneously Hypertensive Rat. American Journal of Hypertension, 1989, 2, 618-624.	1.0	13
98	What we can learn from the selective manipulation of dopaminergic receptors about the pathogenesis and treatment of hypertension?. Current Opinion in Nephrology and Hypertension, 1996, 5, 447-451.	1.0	13
99	Gastrorenal Axis. Hypertension, 2016, 67, 1056-1063.	1.3	13
100	Dopamine D5 receptor-mediated decreases in mitochondrial reactive oxygen species production are cAMP and autophagy dependent. Hypertension Research, 2021, 44, 628-641.	1.5	13
101	Ontogeny of Myocardial Adrenoceptors II. Alpha Adrenoceptors. Pediatric Research, 1982, 16, 340-342.	1.1	12
102	The Renal Sodium Bicarbonate Cotransporter NBCe2: Is It a Major Contributor to Sodium and pH Homeostasis?. Current Hypertension Reports, 2016, 18, 71.	1.5	11
103	Sodium bicarbonate cotransporter NBCe2 gene variants increase sodium and bicarbonate transport in human renal proximal tubule cells. PLoS ONE, 2018, 13, e0189464.	1.1	11
104	Stomach gastrin is regulated by sodium via PPAR-Î± and dopamine D1 receptor. Journal of Molecular Endocrinology, 2020, 64, 53-65.	1.1	11
105	A Novel Role for c-Myc in G Proteinâ€"Coupled Receptor Kinase 4 (GRK4) Transcriptional Regulation in Human Kidney Proximal Tubule Cells. Hypertension, 2013, 61, 1021-1027.	1.3	10
106	Lipid rafts are required for effective renal D₁dopamine receptor function. FASEB Journal, 2020, 34, 6999-7017.	0.2	10
107	Medical automationâ€"a technologically enhanced work environment to reduce the burden of care on nursing staff and a solution to the health care cost crisis. Nursing Outlook, 2003, 51, S5-S10.	1.5	9
108	Î±1B-adrenergic receptors in rat renal microvessels. Kidney International, 1995, 48, 1412-1419.	2.6	8

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109	D3 Dopamine Receptor and Essential Hypertension. Current Hypertension Reviews, 2006, 2, 247-253.	0.5	8
110	Sorting nexin 1 loss results in increased oxidative stress and hypertension. FASEB Journal, 2020, 34, 7941-7957.	0.2	8
111	The Hypertension Related Gene G-Protein Coupled Receptor Kinase 4 Contributes to Breast Cancer Proliferation. Breast Cancer: Basic and Clinical Research, 2021, 15, 117822342110157.	0.6	8
112	Developmental Regulation of the Î±1B-Adrenoceptor in the Sheep Kidney. Pediatric Research, 1993, 34, 124-128.	1.1	6
113	Process Evaluation of an Open Architecture Real-Time Molecular Laboratory Platform. Journal of the Association for Laboratory Automation, 2014, 19, 468-473.	2.8	5
114	Amine Functionalized Trimetallic Nitride Endohedral Fullerenes: A Class of Nanoparticle to Tackle Low Back/Leg Pain. ACS Applied Bio Materials, 2022, 5, 2943-2955.	2.3	5
115	Characteristics of Antihypertensive Medication and Change of Prescription Over 1 Year of Follow Up in Japan: Fukushima Research of Hypertension (FRESH). American Journal of Hypertension, 2010, 23, 1299-1305.	1.0	4
116	Molecular biology of adrenergic and dopamine receptors and the study of developmental nephrology. Pediatric Nephrology, 1990, 4, 679-685.	0.9	3
117	Automated Specimen Inspection, Quality Analysis, and Its Impact on Patient Safety: Beyond the Bar Code. Clinical Chemistry, 2014, 60, 433-434.	1.5	3
118	Comparative microsomal proteomics of a model lung cancer cell line NCI-H23 reveals distinct differences between molecular profiles of 3D and 2D cultured cells. Oncotarget, 2021, 12, 2022-2038.	0.8	3
119	Epithelial Sodium Channel Alpha Subunit (Î±ENaC) Is Associated with Inverse Salt Sensitivity of Blood Pressure. Biomedicines, 2022, 10, 981.	1.4	3
120	Quantitation of selective dopaminergic drugs in plasma by gas chromatographyâ€"mass spectrometry following solid-phase extraction. Biomedical Applications, 1989, 496, 201-208.	1.7	2
121	Development of Simple Devices for Control of Temperature above and below Ambient on Simple Pipetting Stations. Journal of the Association for Laboratory Automation, 1998, 3, 38-42.	2.8	2
122	Medical Mobile Robotics: An Industry Update. Journal of the Association for Laboratory Automation, 2000, 5, 26-29.	2.8	2
123	Developments in Microplate Automation. Journal of the Association for Laboratory Automation, 2002, 7, 67-72.	2.8	2
124	Replicating Human Tumor Biology in Vitro. Genetic Engineering and Biotechnology News, 2013, 33, 19-19.	0.1	2
125	Association between control to target blood pressures and healthy lifestyle factors among Japanese hypertensive patients: Longitudinal data analysis from Fukushima Research of Hypertension (FRESH). Obesity Research and Clinical Practice, 2014, 8, e364-e373.	0.8	2
126	A Pioneering Company in Laboratory Automation. Journal of the Association for Laboratory Automation, 1998, 3, 12-16.	2.8	1

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127	Association between lifestyle-related disorders and visceral fat mass in Japanese males: a hospital based cross-sectional study. Environmental Health and Preventive Medicine, 2014, 19, 429-435.	1.4	1
128	CEPHEID: Expanding the Boundaries for Practical Applications of Microinstrumentation and Microfluidics. Journal of the Association for Laboratory Automation, 1998, 3, 22-26.	2.8	1
129	Push for patient safety is nudge for automation. CAP Today, 2003, 17, 33-6, 38, 40 passim.	0.0	1
130	HIGH-LEVEL EXPRESSION OF RAT D1ADOPAMINE RECEPTOR cDNA IN MOUSE FIBROBLAST LTK- CELLS BY n-BUTYRATE. Clinical and Experimental Pharmacology and Physiology, 1996, 23, 150-154.	0.9	0
131	Automating Your Existing Clinical Instruments. Laboratory Automation News, 1997, 2, 24-29.	0.2	0
132	Review of the LabAutomation'98 Conference and Exhibition. Journal of the Association for Laboratory Automation, 1998, 3, 18-34.	2.8	0
133	Biochip Technology of the Future â€” <i>Today!</i>. Journal of the Association for Laboratory Automation, 1999, 4, 86-89.	2.8	0
134	Software Implementation of Biological Repository for Human Genetic Material. Journal of the Association for Laboratory Automation, 2000, 5, 106-108.	2.8	0
135	Automation Solutions - It's all about time: An in-depth expose of CRS Robotics Inc., Toronto, Canada. Journal of the Association for Laboratory Automation, 2000, 5, 32-36.	2.8	0
136	Human GRK4 variants regulate renal angiotensin AT1 receptor expression. FASEB Journal, 2011, 25, 1041.32.	0.2	0
137	Eurolabautomation'98 at Oxford University. Journal of the Association for Laboratory Automation, 1998, 3, 85-89.	2.8	0