

Qingyu Wu

List of Publications by Year in descending order

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92
papers

5,006
citations

76294

40
h-index

95218

68
g-index

95
all docs

95
docs citations

95
times ranked

4866
citing authors

#	ARTICLE	IF	CITATIONS
1	Type II Transmembrane Serine Proteases. <i>Journal of Biological Chemistry</i> , 2009, 284, 23177-23181.	1.6	317
2	Role of corin in trophoblast invasion and uterine spiral artery remodelling in pregnancy. <i>Nature</i> , 2012, 484, 246-250.	13.7	271
3	Corin, a Mosaic Transmembrane Serine Protease Encoded by a Novel cDNA from Human Heart. <i>Journal of Biological Chemistry</i> , 1999, 274, 14926-14935.	1.6	242
4	Hypertension in mice lacking the proatrial natriuretic peptide convertase corin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 785-790.	3.3	231
5	Corin Gene Minor Allele Defined by 2 Missense Mutations Is Common in Blacks and Associated With High Blood Pressure and Hypertension. <i>Circulation</i> , 2005, 112, 2403-2410.	1.6	189
6	Furin-mediated Processing of Pro-C-type Natriuretic Peptide. <i>Journal of Biological Chemistry</i> , 2003, 278, 25847-25852.	1.6	183
7	Atrial natriuretic peptide in cardiovascular biology and disease (NPPA). <i>Gene</i> , 2015, 569, 1-6.	1.0	160
8	Membrane-Anchored Serine Proteases in Health and Disease. <i>Progress in Molecular Biology and Translational Science</i> , 2011, 99, 1-50.	0.9	146
9	Processing of Pro-atrial Natriuretic Peptide by Corin in Cardiac Myocytes. <i>Journal of Biological Chemistry</i> , 2002, 277, 16900-16905.	1.6	136
10	Plasma Soluble Corin in Patients With Heart Failure. <i>Circulation: Heart Failure</i> , 2010, 3, 207-211.	1.6	134
11	Corin Variant Associated With Hypertension and Cardiac Hypertrophy Exhibits Impaired Zymogen Activation and Natriuretic Peptide Processing Activity. <i>Circulation Research</i> , 2008, 103, 502-508.	2.0	118
12	PCSK6-mediated corin activation is essential for normal blood pressure. <i>Nature Medicine</i> , 2015, 21, 1048-1053.	15.2	117
13	Functional Analysis of the Transmembrane Domain and Activation Cleavage of Human Corin. <i>Journal of Biological Chemistry</i> , 2003, 278, 52363-52370.	1.6	109
14	Corin: new insights into the natriuretic peptide system. <i>Kidney International</i> , 2009, 75, 142-146.	2.6	102
15	The serine protease hepsin mediates urinary secretion and polymerisation of Zona Pellucida domain protein uromodulin. <i>ELife</i> , 2015, 4, e08887.	2.8	92
16	Ectodomain Shedding and Autocleavage of the Cardiac Membrane Protease Corin. <i>Journal of Biological Chemistry</i> , 2011, 286, 10066-10072.	1.6	89
17	ANP-induced signaling cascade and its implications in renal pathophysiology. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 308, F1047-F1055.	1.3	81
18	Identification of Domain Structures in the Propeptide of Corin Essential for the Processing of Proatrial Natriuretic Peptide. <i>Journal of Biological Chemistry</i> , 2004, 279, 34464-34471.	1.6	77

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19	MicroRNA-505 identified from patients with essential hypertension impairs endothelial cell migration and tube formation. <i>International Journal of Cardiology</i> , 2014, 177, 925-934.	0.8	77
20	DESC1 and MSPL Activate Influenza A Viruses and Emerging Coronaviruses for Host Cell Entry. <i>Journal of Virology</i> , 2014, 88, 12087-12097.	1.5	76
21	Antibodies Neutralizing Hepsin Protease Activity Do Not Impact Cell Growth but Inhibit Invasion of Prostate and Ovarian Tumor Cells in Culture. <i>Cancer Research</i> , 2006, 66, 3611-3619.	0.4	73
22	Hepsin and prostate cancer. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 5052.	3.0	72
23	Impaired sodium excretion and salt-sensitive hypertension in corin-deficient mice. <i>Kidney International</i> , 2012, 82, 26-33.	2.6	71
24	An integrated genetic and functional analysis of the role of type II transmembrane serine proteases (TMPRSSs) in hearing loss. <i>Human Mutation</i> , 2008, 29, 130-141.	1.1	70
25	Discovery and Fine Mapping of Serum Protein Loci through Transethnic Meta-analysis. <i>American Journal of Human Genetics</i> , 2012, 91, 744-753.	2.6	69
26	Protease corin expression and activity in failing hearts. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1687-H1692.	1.5	68
27	Mice Deficient for the Type II Transmembrane Serine Protease, TMPRSS1/hepsin, Exhibit Profound Hearing Loss. <i>American Journal of Pathology</i> , 2007, 171, 608-616.	1.9	66
28	Decreased renal corin expression contributes to sodium retention in proteinuric kidney diseases. <i>Kidney International</i> , 2010, 78, 650-659.	2.6	66
29	Corin in clinical laboratory diagnostics. <i>Clinica Chimica Acta</i> , 2012, 413, 378-383.	0.5	60
30	Corin Mutation R539C from Hypertensive Patients Impairs Zymogen Activation and Generates an Inactive Alternative Ectodomain Fragment. <i>Journal of Biological Chemistry</i> , 2013, 288, 7867-7874.	1.6	60
31	Role of Glycosylation in Corin Zymogen Activation. <i>Journal of Biological Chemistry</i> , 2007, 282, 27728-27735.	1.6	59
32	Genomic Structures of the Human and Murine Corin Genes and Functional GATA Elements in Their Promoters. <i>Journal of Biological Chemistry</i> , 2002, 277, 38390-38398.	1.6	58
33	Salt-Sensitive Hypertension and Cardiac Hypertrophy in Transgenic Mice Expressing a Corin Variant Identified in Blacks. <i>Hypertension</i> , 2012, 60, 1352-1358.	1.3	58
34	The serine protease corin in cardiovascular biology and disease. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 4179.	3.0	56
35	Serine proteases and cardiac function. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1751, 82-94.	1.1	53
36	Corin in Natriuretic Peptide Processing and Hypertension. <i>Current Hypertension Reports</i> , 2014, 16, 415.	1.5	53

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37	Type II transmembrane serine proteases. <i>Current Topics in Developmental Biology</i> , 2003, 54, 167-206.	1.0	51
38	Upregulation of corin gene expression in hypertrophic cardiomyocytes and failing myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H1625-H1631.	1.5	49
39	Molecular forms of natriuretic peptides in heart failure and their implications. <i>Heart</i> , 2010, 96, 419-424.	1.2	45
40	Corin Mutations K317E and S472G from Preeclamptic Patients Alter Zymogen Activation and Cell Surface Targeting. <i>Journal of Biological Chemistry</i> , 2014, 289, 17909-17916.	1.6	45
41	Effect of Sialylated O-Glycans in Pro-Brain Natriuretic Peptide Stability. <i>Clinical Chemistry</i> , 2010, 56, 959-966.	1.5	37
42	Iron-refractory iron deficiency anemia: new molecular mechanisms. <i>Kidney International</i> , 2009, 76, 1137-1141.	2.6	35
43	N-Glycosylation Is Required for Matriptase-2 Autoactivation and Ectodomain Shedding. <i>Journal of Biological Chemistry</i> , 2014, 289, 19500-19507.	1.6	35
44	High-Mobility Group Box 1 From Hypoxic Trophoblasts Promotes Endothelial Microparticle Production and Thrombophilia in Preeclampsia. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018, 38, 1381-1391.	1.1	34
45	Glycosylation and processing of pro-B-type natriuretic peptide in cardiomyocytes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 593-598.	1.0	32
46	Human Corin Isoforms with Different Cytoplasmic Tails That Alter Cell Surface Targeting. <i>Journal of Biological Chemistry</i> , 2011, 286, 20963-20969.	1.6	32
47	Reduced urinary corin levels in patients with chronic kidney disease. <i>Clinical Science</i> , 2013, 124, 709-717.	1.8	32
48	Role of corin in the regulation of blood pressure. <i>Current Opinion in Nephrology and Hypertension</i> , 2016, 26, 1.	1.0	32
49	Distinct Roles of N-Glycosylation at Different Sites of Corin in Cell Membrane Targeting and Ectodomain Shedding. <i>Journal of Biological Chemistry</i> , 2015, 290, 1654-1663.	1.6	28
50	Atrial natriuretic peptide promotes uterine decidualization and a TRAIL-dependent mechanism in spiral artery remodeling. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	28
51	Identification and functional analysis of CORIN variants in hypertensive patients. <i>Human Mutation</i> , 2017, 38, 1700-1710.	1.1	27
52	Localization of corin and atrial natriuretic peptide expression in human renal segments. <i>Clinical Science</i> , 2016, 130, 1655-1664.	1.8	26
53	A unique microRNA profile in end-stage heart failure indicates alterations in specific cardiovascular signaling networks. <i>PLoS ONE</i> , 2017, 12, e0170456.	1.1	26
54	N-glycosylation in the protease domain of trypsin-like serine proteases mediates calnexin-assisted protein folding. <i>ELife</i> , 2018, 7, .	2.8	26

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55	A Corin Variant Identified in Hypertensive Patients That Alters Cytoplasmic Tail and Reduces Cell Surface Expression and Activity. <i>Scientific Reports</i> , 2014, 4, 7378.	1.6	24
56	Increased Neutrophil Activation and Plasma DNA Levels in Patients with Pre-Eclampsia. <i>Thrombosis and Haemostasis</i> , 2018, 118, 2064-2073.	1.8	23
57	Intracellular autoactivation of TMPRSS11A, an airway epithelial transmembrane serine protease. <i>Journal of Biological Chemistry</i> , 2020, 295, 12686-12696.	1.6	22
58	Krüppel-like factor 17 upregulates uterine corin expression and promotes spiral artery remodeling in pregnancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19425-19434.	3.3	21
59	Hepsin: a multifunctional transmembrane serine protease in pathobiology. <i>FEBS Journal</i> , 2021, 288, 5252-5264.	2.2	21
60	Hepsin enhances liver metabolism and inhibits adipocyte browning in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12359-12367.	3.3	21
61	Function and regulation of corin in physiology and disease. <i>Biochemical Society Transactions</i> , 2020, 48, 1905-1916.	1.6	21
62	Small GTPases SAR1A and SAR1B regulate the trafficking of the cardiac sodium channel Nav1.5. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3672-3684.	1.8	20
63	Modulation of Platelet Activation and Thrombus Formation Using a Pan-PI3K Inhibitor S14161. <i>PLoS ONE</i> , 2014, 9, e102394.	1.1	20
64	Pregnancy-Associated Cardiac Hypertrophy in Corin-Deficient Mice: Observations in a Transgenic Model of Preeclampsia. <i>Canadian Journal of Cardiology</i> , 2019, 35, 68-76.	0.8	19
65	Hepsin inhibits CDK1/p58 IRES activity by suppressing unr expression and eIF-2 γ phosphorylation in prostate cancer. <i>Cellular Signalling</i> , 2015, 27, 789-797.	1.7	18
66	Corin, atrial natriuretic peptide and hypertension. <i>Nephrology Dialysis Transplantation</i> , 2008, 24, 1071-1073.	0.4	17
67	Functional analysis of corin protein domains required for PCSK6-mediated activation. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 94, 31-39.	1.2	15
68	The Transmembrane Serine Protease HAT-like 4 Is Important for Epidermal Barrier Function to Prevent Body Fluid Loss. <i>Scientific Reports</i> , 2017, 7, 45262.	1.6	13
69	Autoactivation and calpain-1-mediated shedding of hepsin in human hepatoma cells. <i>Biochemical Journal</i> , 2019, 476, 2355-2369.	1.7	13
70	Role of the protease corin in chondrogenic differentiation of human bone marrow-derived mesenchymal stem cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 973-982.	1.3	12
71	Hepsin regulates TGF β 2 signaling via fibronectin proteolysis. <i>EMBO Reports</i> , 2021, 22, e52532.	2.0	11
72	N-glycan in the scavenger receptor cysteine-rich domain of hepsin promotes intracellular trafficking and cell surface expression. <i>International Journal of Biological Macromolecules</i> , 2020, 161, 818-827.	3.6	10

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73	The protease corin regulates electrolyte homeostasis in eccrine sweat glands. <i>PLoS Biology</i> , 2021, 19, e3001090.	2.6	10
74	Pcsk6 Deficiency Promotes Cardiomyocyte Senescence by Modulating Ddit3-Mediated ER Stress. <i>Genes</i> , 2022, 13, 711.	1.0	10
75	An improved flow cytometric immunobead array to detect autoantibodies in plasma from patients with immune thrombocytopenic purpura. <i>Clinica Chimica Acta</i> , 2015, 438, 396-400.	0.5	9
76	N-Glycan-calnexin interactions in human factor VII secretion and deficiency. <i>International Journal of Biochemistry and Cell Biology</i> , 2019, 113, 67-74.	1.2	8
77	Recombinant Soluble Corin Improves Cardiac Function in Mouse Models of Heart Failure. <i>Journal of the American Heart Association</i> , 2021, 10, e019961.	1.6	8
78	Cross-linking, Immunoprecipitation and Proteomic Analysis to Identify Interacting Proteins in Cultured Cells. <i>Bio-protocol</i> , 2019, 9, .	0.2	8
79	Corin: A Key Mediator in Sodium Homeostasis, Vascular Remodeling, and Heart Failure. <i>Biology</i> , 2022, 11, 717.	1.3	8
80	The role of fucosylation in the promotion of endothelial progenitor cells in neovascularization and bone repair. <i>Biomaterials</i> , 2014, 35, 3777-3785.	5.7	7
81	Ectopic expression of human airway trypsin-like protease 4 in acute myeloid leukemia promotes cancer cell invasion and tumor growth. <i>Cancer Medicine</i> , 2019, 8, 2348-2359.	1.3	7
82	A conserved LDL-receptor motif regulates corin and CD320 membrane targeting in polarized renal epithelial cells. <i>ELife</i> , 2020, 9, .	2.8	6
83	A novel cytoplasmic tail motif regulates mouse corin expression on the cell surface. <i>Biochemical and Biophysical Research Communications</i> , 2015, 465, 152-158.	1.0	5
84	Corin is a key regulator of endochondral ossification and bone development via modulation of vascular endothelial growth factor A expression. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2277-2286.	1.3	5
85	CD320 expression and apical membrane targeting in renal and intestinal epithelial cells. <i>International Journal of Biological Macromolecules</i> , 2022, 201, 85-92.	3.6	4
86	Recombinant and chemo-/bio-orthogonal synthesis of liposomal thrombomodulin and its antithrombotic activity. <i>Journal of Bioscience and Bioengineering</i> , 2017, 124, 445-451.	1.1	3
87	A common CORIN variant in hypertension reduces corin intracellular trafficking by exposing an inhibitory N-terminus. <i>Biochemical and Biophysical Research Communications</i> , 2020, 530, 35-41.	1.0	3
88	Identification and Functional Analysis of a Novel von Willebrand Factor Mutation in a Family with Type 2A von Willebrand Disease. <i>PLoS ONE</i> , 2012, 7, e33263.	1.1	2
89	Probing the functional consequence and clinical relevance of <sc><i>CD320</i></sc> p.E88del, a variant in the transcobalamin receptor gene. <i>American Journal of Medical Genetics, Part A</i> , 2022, 188, 1124-1141.	0.7	2
90	Glucosidase Inhibition to Study Calnexin-assisted Glycoprotein Folding in Cells. <i>Bio-protocol</i> , 2019, 9, .	0.2	1

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91	Corin: a serine protease. <i>Kidney International</i> , 2011, 79, 138-139.	2.6	0
92	Matriptase Is Highly up-Regulated in Chronic Lymphocytic Leukemia and Promotes Cancer Cell Invasion. <i>Blood</i> , 2012, 120, 4612-4612.	0.6	0