Jakob Voelkl

List of Publications by Year
in descending order

60 papers	2,407 citations	279798 23 h-index	233421 45 g-index
61 all docs	61 docs citations	61 times ranked	2900 citing authors

#	Article	IF	Citations
1	Sgk1-Dependent Stimulation of Cardiac Na⁺/H⁺Exchanger Nhe1 by Dexamethasone. Cellular Physiology and Biochemistry, 2013, 32, 25-38.	1.6	654
2	Spironolactone ameliorates PIT1-dependent vascular osteoinduction in klotho-hypomorphic mice. Journal of Clinical Investigation, 2013, 123, 812-22.	8.2	128
3	Signaling pathways involved in vascular smooth muscle cell calcification during hyperphosphatemia. Cellular and Molecular Life Sciences, 2019, 76, 2077-2091.	5.4	127
4	SGK1 induces vascular smooth muscle cell calcification through NF-ÎºB signaling. Journal of Clinical Investigation, 2018, 128, 3024-3040.	8.2	114
5	Zinc Inhibits Phosphate-Induced Vascular Calcification through TNFAIP3-Mediated Suppression of NF-ÎºB. Journal of the American Society of Nephrology: JASN, 2018, 29, 1636-1648.	6.1	109
6	Stimulation of Suicidal Erythrocyte Death by Increased Extracellular Phosphate Concentrations. Kidney and Blood Pressure Research, 2013, 38, 42-51.	2.0	107
7	Therapeutic potential of serum and glucocorticoid inducible kinase inhibition. Expert Opinion on Investigational Drugs, 2013, 22, 701-714.	4.1	78
8	Augmentation of phosphate-induced osteo-/chondrogenic transformation of vascular smooth muscle cells by homoarginine. Cardiovascular Research, 2016, 110, 408-418.	3.8	73
9	Vascular calcification--is aldosterone a culprit?. Nephrology Dialysis Transplantation, 2013, 28, 1080-1084.	0.7	67
10	Pivotal Role of Serum- and Glucocorticoid-Inducible Kinase 1 in Vascular Inflammation and Atherogenesis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 547-557.	2.4	55
11	Involvement Of Vascular Aldosterone Synthase In Phosphate-Induced Osteogenic Transformation Of Vascular Smooth Muscle Cells. Scientific Reports, 2017, 7, 2059.	3.3	53
12	Sgk1 sensitivity of Na+/H+ exchanger activity and cardiac remodeling following pressure overload. Basic Research in Cardiology, 2012, 107, 236.	5.9	47
13	Fibulin-3 Attenuates Phosphate-Induced Vascular Smooth Muscle Cell Calcification by Inhibition of Oxidative Stress. Cellular Physiology and Biochemistry, 2018, 46, 1305-1316.	1.6	43
14	Inflammation: a putative link between phosphate metabolism and cardiovascular disease. Clinical Science, 2021, 135, 201-227.	4.3	39
15	Circulating uromodulin inhibits vascular calcification by interfering with pro-inflammatory cytokine signalling. Cardiovascular Research, 2021, 117, 930-941.	3.8	38
16	Serum- and glucocorticoid-inducible kinase 1 and the response to cell stress. Cell Stress, 2019, 3, 1-8.	3.2	38
17	Inhibition of osteo/chondrogenic transformation of vascular smooth muscle cells by MgCl2 via calcium-sensing receptor. Journal of Hypertension, 2017, 35, 523-532.	0.5	37
18	An overview of the mechanisms in vascular calcification during chronic kidney disease. Current Opinion in Nephrology and Hypertension, 2019, 28, 289-296.	2.0	37

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19	Inhibition of Phosphate-Induced Vascular Smooth Muscle Cell Osteo-/Chondrogenic Signaling and Calcification by Bafilomycin A1 and Methylamine. Kidney and Blood Pressure Research, 2015, 40, 490-499.	2.0	36
20	Impact of C-reactive protein on osteo-/chondrogenic transdifferentiation and calcification of vascular smooth muscle cells. Aging, 2019, 11, 5445-5462.	3.1	33
21	A high-fat diet stimulates fibroblast growth factor 23 formation in mice through TNFÎ± upregulation. Nutrition and Diabetes, 2018, 8, 36.	3.2	32
22	Therapeutic Interference With Vascular Calcificationâ€”Lessons From Klotho-Hypomorphic Mice and Beyond. Frontiers in Endocrinology, 2018, 9, 207.	3.5	27
23	Association of Serum Uromodulin with Death, Cardiovascular Events, and Kidney Failure in CKD. Clinical Journal of the American Society of Nephrology: CJASN, 2020, 15, 616-624.	4.5	25
24	Systems biology identifies cytosolic PLA2 as a target in vascular calcification treatment. JCI Insight, 2019, 4, .	5.0	25
25	Do K_V7.1 channels contribute to control of arterial vascular tone?. British Journal of Pharmacology, 2017, 174, 150-162.	5.4	24
26	PKB/SGK-Resistant GSK-3 Signaling Following Unilateral Ureteral Obstruction. Kidney and Blood Pressure Research, 2013, 38, 156-164.	2.0	21
27	SGK1-Sensitive Regulation of Cyclin-Dependent Kinase Inhibitor 1B (p27) in Cardiomyocyte Hypertrophy. Cellular Physiology and Biochemistry, 2015, 37, 603-614.	1.6	21
28	Expanded Haemodialysis Therapy of Chronic Haemodialysis Patients Prevents Calcification and Apoptosis of Vascular Smooth Muscle Cells in vitro. Blood Purification, 2018, 45, 131-138.	1.8	20
29	Impact of Î²-glycerophosphate on the bioenergetic profile of vascular smooth muscle cells. Journal of Molecular Medicine, 2020, 98, 985-997.	3.9	20
30	SGK1 Inhibits Autophagy in Murine Muscle Tissue. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	4.0	19
31	Role of SGK1 in the Osteogenic Transdifferentiation and Calcification of Vascular Smooth Muscle Cells Promoted by Hyperglycemic Conditions. International Journal of Molecular Sciences, 2020, 21, 7207.	4.1	19
32	Phosphate-induced ORAI1 expression and store-operated Ca2+ entry in aortic smooth muscle cells. Journal of Molecular Medicine, 2019, 97, 1465-1475.	3.9	17
33	Bicarbonate-sensitive calcification and lifespan of klotho-deficient mice. American Journal of Physiology - Renal Physiology, 2016, 310, F102-F108.	2.7	15
34	SGK1-dependent stimulation of vascular smooth muscle cell osteo-/chondrogenic transdifferentiation by interleukin-18. Pflugers Archiv European Journal of Physiology, 2019, 471, 889-899.	2.8	15
35	Annexin A7 deficiency potentiates cardiac NFAT activity promoting hypertrophic signaling. Biochemical and Biophysical Research Communications, 2014, 445, 244-249.	2.1	14
36	AMP-activated protein kinase Î±1-sensitive activation of AP-1 in cardiomyocytes. Journal of Molecular and Cellular Cardiology, 2016, 97, 36-43.	1.9	14

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37	Role of PKB/SGK-dependent phosphorylation of GSK-3Î±/Î² in vascular calcification during cholecalciferol overload in mice. Biochemical and Biophysical Research Communications, 2018, 503, 2068-2074.	2.1	14
38	Role of Cytosolic Serine Hydroxymethyl Transferase 1 (SHMT1) in Phosphate-Induced Vascular Smooth Muscle Cell Calcification. Kidney and Blood Pressure Research, 2018, 43, 1212-1221.	2.0	13
39	Inhibition of vascular smooth muscle cell calcification by vasorin through interference with TGFÎ²1 signaling. Cellular Signalling, 2019, 64, 109414.	3.6	12
40	Impact of AMP-Activated Protein Kinase Î±1 Deficiency on Tissue Injury following Unilateral Ureteral Obstruction. PLoS ONE, 2015, 10, e0135235.	2.5	12
41	1,25(OH)2D3 dependent overt hyperactivity phenotype in klotho-hypomorphic mice. Scientific Reports, 2016, 6, 24879.	3.3	11
42	Zinc Ameliorates the Osteogenic Effects of High Glucose in Vascular Smooth Muscle Cells. Cells, 2021, 10, 3083.	4.1	11
43	Relationship between bone turnover and left ventricular function in primary hyperparathyroidism: The EPATH trial. PLoS ONE, 2017, 12, e0173799.	2.5	10
44	Beta-Glycerophosphate-Induced ORAI1 Expression and Store Operated Ca2+ Entry in Megakaryocytes. Scientific Reports, 2020, 10, 1728.	3.3	9
45	Acid sphingomyelinase promotes SGK1-dependent vascular calcification. Clinical Science, 2021, 135, 515-534.	4.3	9
46	Role of AMP-activated protein kinase Î±1 in angiotensin-II-induced renal TgfÃŸ-activated kinase 1 activation. Biochemical and Biophysical Research Communications, 2016, 476, 267-272.	2.1	8
47	Stimulation of ORAI1 expression, store-operated Ca2+ entry, and osteogenic signaling by high glucose exposure of human aortic smooth muscle cells. Pflugers Archiv European Journal of Physiology, 2020, 472, 1093-1102.	2.8	7
48	Increased Î²-adrenergic stimulation augments vascular smooth muscle cell calcification via PKA/CREB signalling. Pflugers Archiv European Journal of Physiology, 2021, 473, 1899-1910.	2.8	7
49	Klotho Deficiency Induces Arteriolar Hyalinosis in a Trade-Off with Vascular Calcification. American Journal of Pathology, 2019, 189, 2503-2515.	3.8	6
50	Diagnostic Accuracy of the Aldosteroneâ€“toâ€“Active Renin Ratio for Detecting Primary Aldosteronism. Journal of the Endocrine Society, 2019, 3, 1748-1758.	0.2	6
51	Associations of Serum Cortisol with Cardiovascular Risk and Mortality in Patients Referred to Coronary Angiography. Journal of the Endocrine Society, 2021, 5, bvab017.	0.2	6
52	Heterotrimeric G-protein subunit G<i>Î±</i> _{i2} contributes to agonist-sensitive apoptosis and degranulation in murine platelets. Physiological Reports, 2018, 6, e13841.	1.7	5
53	GWAS meta-analysis followed by Mendelian randomization revealed potential control mechanisms for circulating Î±-Klotho levels. Human Molecular Genetics, 2022, 31, 792-802.	2.9	5
54	Protective effects of spironolactone on vascular calcification in chronic kidney disease. Biochemical and Biophysical Research Communications, 2021, 582, 28-34.	2.1	4

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55	Serum Calcification Propensity and Calcification of the Abdominal Aorta in Patients With Primary Aldosteronism. Frontiers in Cardiovascular Medicine, 2022, 9, 771096.	2.4	4
56	Associations of Thyroid Hormones and Resting Heart Rate in Patients Referred to Coronary Angiography. Hormone and Metabolic Research, 2020, 52, 850-855.	1.5	3
57	NO Synthesis Markers Are Not Significantly Associated with Blood Pressure and Endothelial Dysfunction in Patients with Arterial Hypertension: A Cross-Sectional Study. Journal of Clinical Medicine, 2020, 9, 3895.	2.4	2
58	Adenylyl cyclase 6 in acid-base balance â€“ adding complexity. Clinical Science, 2018, 132, 1995-1997.	4.3	1
59	The Case | A nonhealing skin ulcer in a patient 5 years after successful transplantation. Kidney International, 2021, 100, 1357-1358.	5.2	1
60	FP089ARTERIOLAR HYALINOSIS IN KLOTHO DEFICIENCY. Nephrology Dialysis Transplantation, 2018, 33, i77-i77.	0.7	0