

Balakuntalam S Kasinath

List of Publications by Year in descending order

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82
papers

3,579
citations

101543

36
h-index

144013

57
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84
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84
docs citations

84
times ranked

4538
citing authors

#	ARTICLE	IF	CITATIONS
1	A role for AMP-activated protein kinase in diabetes-induced renal hypertrophy. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 292, F617-F627.	2.7	253
2	AMP-activated Protein Kinase (AMPK) Negatively Regulates Nox4-dependent Activation of p53 and Epithelial Cell Apoptosis in Diabetes. <i>Journal of Biological Chemistry</i> , 2010, 285, 37503-37512.	3.4	222
3	MicroRNA-21 Orchestrates High Glucose-induced Signals to TOR Complex 1, Resulting in Renal Cell Pathology in Diabetes. <i>Journal of Biological Chemistry</i> , 2011, 286, 25586-25603.	3.4	198
4	Regulation of Elongation Phase of mRNA Translation in Diabetic Nephropathy. <i>American Journal of Pathology</i> , 2007, 171, 1733-1742.	3.8	114
5	Hydrogen Sulfide Inhibits High Glucose-induced Matrix Protein Synthesis by Activating AMP-activated Protein Kinase in Renal Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 4451-4461.	3.4	108
6	TGF β -Stimulated MicroRNA-21 Utilizes PTEN to Orchestrate AKT/mTORC1 Signaling for Mesangial Cell Hypertrophy and Matrix Expansion. <i>PLoS ONE</i> , 2012, 7, e42316.	2.5	100
7	Disease drivers of aging. <i>Annals of the New York Academy of Sciences</i> , 2016, 1386, 45-68.	3.8	97
8	Activation of renal signaling pathways in db/db mice with type 2 diabetes. <i>Kidney International</i> , 2001, 60, 495-504.	5.2	94
9	Tryptophan Metabolism in Patients With Chronic Kidney Disease Secondary to Type 2 Diabetes: Relationship to Inflammatory Markers. <i>International Journal of Tryptophan Research</i> , 2017, 10, 117864691769460.	2.3	89
10	Hydrogen Sulfide in Renal Physiology and Disease. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 720-731.	5.4	82
11	Insulin regulation of protein translation repressor 4E-BP1, an eIF4E-binding protein, in renal epithelial cells. <i>Kidney International</i> , 2001, 59, 866-875.	5.2	73
12	High Glucose, High Insulin, and Their Combination Rapidly Induce Laminin- β 1 Synthesis by Regulation of mRNA Translation in Renal Epithelial Cells. <i>Diabetes</i> , 2007, 56, 476-485.	0.6	71
13	microRNA-21 Governs TORC1 Activation in Renal Cancer Cell Proliferation and Invasion. <i>PLoS ONE</i> , 2012, 7, e37366.	2.5	70
14	Angiotensin II stimulation of VEGF mRNA translation requires production of reactive oxygen species. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 290, F927-F936.	2.7	68
15	Vascular endothelial growth factor induces protein synthesis in renal epithelial cells: A potential role in diabetic nephropathy ¹¹ See Editorial by Ziyadeh and Wolf, p. 758.. <i>Kidney International</i> , 2003, 64, 468-479.	5.2	65
16	Glycogen Synthase Kinase β Is a Novel Regulator of High Glucose- and High Insulin-induced Extracellular Matrix Protein Synthesis in Renal Proximal Tubular Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2008, 283, 30566-30575.	3.4	63
17	Raptor-ricor axis in TGF β -induced protein synthesis. <i>Cellular Signalling</i> , 2008, 20, 409-423.	3.6	60
18	Rapamycin Increases Mortality in <i>db/db</i> Mice, a Mouse Model of Type 2 Diabetes. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2016, 71, 850-857.	3.6	57

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19	mRNA Translation. Journal of the American Society of Nephrology: JASN, 2006, 17, 3281-3292.	6.1	56
20	Angiotensin II and growth factors in the pathogenesis of diabetic nephropathy. Kidney International, 2002, 62, S8-S11.	5.2	55
21	microRNA-21-induced dissociation of PDCD4 from rictor contributes to Akt-IKK β -mTORC1 axis to regulate renal cancer cell invasion. Experimental Cell Research, 2014, 328, 99-117.	2.6	55
22	Reciprocal regulation of miR-214 and PTEN by high glucose regulates renal glomerular mesangial and proximal tubular epithelial cell hypertrophy and matrix expansion. American Journal of Physiology - Cell Physiology, 2017, 313, C430-C447.	4.6	55
23	Regulation of mRNA translation in renal physiology and disease. American Journal of Physiology - Renal Physiology, 2009, 297, F1153-F1165.	2.7	52
24	Hydrogen sulfide ameliorates aging-associated changes in the kidney. GeroScience, 2018, 40, 163-176.	4.6	49
25	Translational regulation of vascular endothelial growth factor expression in renal epithelial cells by angiotensin II. American Journal of Physiology - Renal Physiology, 2005, 288, F521-F529.	2.7	45
26	NF κ B-mediated cyclin D1 expression by microRNA-21 influences renal cancer cell proliferation. Cellular Signalling, 2013, 25, 2575-2586.	3.6	45
27	Regulation of Renal Laminin in Mice with Type II Diabetes. Journal of the American Society of Nephrology: JASN, 1999, 10, 1931-1939.	6.1	44
28	PRAS40 acts as a nodal regulator of high glucose-induced TORC1 activation in glomerular mesangial cell hypertrophy. Journal of Cellular Physiology, 2010, 225, 27-41.	4.1	43
29	Resveratrol ameliorates high glucose-induced protein synthesis in glomerular epithelial cells. Cellular Signalling, 2010, 22, 65-70.	3.6	42
30	Activation of Glycogen Synthase Kinase 3 β Ameliorates Diabetes-induced Kidney Injury. Journal of Biological Chemistry, 2014, 289, 35363-35375.	3.4	42
31	High glucose upregulation of early-onset Parkinson's disease protein DJ-1 integrates the PRAS40/TORC1 axis to mesangial cell hypertrophy. Cellular Signalling, 2011, 23, 1311-1319.	3.6	40
32	Hydrogen sulfide inhibits high glucose-induced NADPH oxidase 4 expression and matrix increase by recruiting inducible nitric oxide synthase in kidney proximal tubular epithelial cells. Journal of Biological Chemistry, 2017, 292, 5665-5675.	3.4	40
33	Molecular events in matrix protein metabolism in the aging kidney. Aging Cell, 2012, 11, 1065-1073.	6.7	38
34	High Glucose Forces a Positive Feedback Loop Connecting Akt Kinase and FoxO1 Transcription Factor to Activate mTORC1 Kinase for Mesangial Cell Hypertrophy and Matrix Protein Expression. Journal of Biological Chemistry, 2014, 289, 32703-32716.	3.4	38
35	High glucose enhances microRNA-26a to activate mTORC1 for mesangial cell hypertrophy and matrix protein expression. Cellular Signalling, 2015, 27, 1276-1285.	3.6	38
36	Tadalafil Integrates Nitric Oxide-Hydrogen Sulfide Signaling to Inhibit High Glucose-induced Matrix Protein Synthesis in Podocytes. Journal of Biological Chemistry, 2015, 290, 12014-12026.	3.4	38

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37	HIV-Associated Nephropathy. American Journal of Pathology, 2010, 177, 813-821.	3.8	37
38	Erk in Kidney Diseases. Journal of Signal Transduction, 2011, 2011, 1-8.	2.0	37
39	Unrestrained Mammalian Target of Rapamycin Complexes 1 and 2 Increase Expression of Phosphatase and Tensin Homolog Deleted on Chromosome 10 to Regulate Phosphorylation of Akt Kinase. Journal of Biological Chemistry, 2012, 287, 3808-3822.	3.4	37
40	TGF β ² -Induced Deptor Suppression Recruits mTORC1 and Not mTORC2 to Enhance Collagen I (α 2) Gene Expression. PLoS ONE, 2014, 9, e109608.	2.5	36
41	Regulation of protein synthesis by IGF-I in proximal tubular epithelial cells. American Journal of Physiology - Renal Physiology, 2002, 283, F1226-F1236.	2.7	35
42	Resveratrol inhibits PDGF receptor mitogenic signaling in mesangial cells: role of PTP1B. FASEB Journal, 2008, 22, 3469-3482.	0.5	35
43	Hydrogen sulfide as a regulatory factor in kidney health and disease. Biochemical Pharmacology, 2018, 149, 29-41.	4.4	34
44	The type 2 vascular endothelial growth factor receptor recruits insulin receptor substrate-1 in its signalling pathway. Biochemical Journal, 2002, 368, 49-56.	3.7	32
45	MicroRNA-214 Reduces Insulin-like Growth Factor-1 (IGF-1) Receptor Expression and Downstream mTORC1 Signaling in Renal Carcinoma Cells. Journal of Biological Chemistry, 2016, 291, 14662-14676.	3.4	32
46	The complex world of kidney microRNAs. Kidney International, 2011, 80, 334-337.	5.2	31
47	Ribosomal biogenesis induction by high glucose requires activation of upstream binding factor in kidney glomerular epithelial cells. American Journal of Physiology - Renal Physiology, 2011, 300, F219-F230.	2.7	31
48	Transforming Growth Factor β ² Integrates Smad 3 to Mechanistic Target of Rapamycin Complexes to Arrest Deptor Abundance for Glomerular Mesangial Cell Hypertrophy. Journal of Biological Chemistry, 2013, 288, 7756-7768.	3.4	31
49	Angiotensin II inhibits insulin-stimulated phosphorylation of eukaryotic initiation factor 4E-binding protein-1 in proximal tubular epithelial cells. Biochemical Journal, 2001, 360, 87-95.	3.7	26
50	Phospholipase C β ³ -Erk Axis in Vascular Endothelial Growth Factor-induced Eukaryotic Initiation Factor 4E Phosphorylation and Protein Synthesis in Renal Epithelial Cells. Journal of Biological Chemistry, 2005, 280, 28402-28411.	3.4	26
51	TSC2 Deficiency Increases PTEN via HIF1 α . Journal of Biological Chemistry, 2009, 284, 27790-27798.	3.4	26
52	Acute hyperglycemia rapidly stimulates VEGF mRNA translation in the kidney. Role of angiotensin type 2 receptor (AT2). Cellular Signalling, 2010, 22, 1849-1857.	3.6	23
53	Cross-sectional comparison of healthspan phenotypes in young versus geriatric marmosets. American Journal of Primatology, 2019, 81, e22952.	1.7	23
54	A positive feedback loop involving Erk5 and Akt turns on mesangial cell proliferation in response to PDGF. American Journal of Physiology - Cell Physiology, 2014, 306, C1089-C1100.	4.6	21

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55	TGF β 2 enforces activation of eukaryotic elongation factor β 2 (eEF2) via inactivation of eEF2 kinase by p90 ribosomal S6 kinase (p90Rsk) to induce mesangial cell hypertrophy. <i>FEBS Letters</i> , 2010, 584, 4268-4272.	2.8	19
56	Marmoset as a Model to Study Kidney Changes Associated With Aging. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, 315-324.	3.6	19
57	Tubular β -catenin and FoxO3 interactions protect in chronic kidney disease. <i>JCI Insight</i> , 2020, 5, .	5.0	19
58	Novel mechanisms of protein synthesis in diabetic nephropathy β role of mRNA translation. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2008, 9, 255-266.	5.7	18
59	PDGF receptor- β 2 uses Akt/mTORC1 signaling node to promote high glucose-induced renal proximal tubular cell collagen I (\pm) expression. <i>American Journal of Physiology - Renal Physiology</i> , 2017, 313, F291-F307.	2.7	16
60	Akt2 causes TGF β 2-induced dephosphorylation of mTOR to drive podocyte hypertrophy and matrix protein expression. <i>PLoS ONE</i> , 2018, 13, e0207285.	2.5	16
61	Deacetylation of S6 kinase promotes high glucose β induced glomerular mesangial cell hypertrophy and matrix protein accumulation. <i>Journal of Biological Chemistry</i> , 2019, 294, 9440-9460.	3.4	16
62	TGF β 2 acts through PDGFR β 2 to activate mTORC1 via the Akt/PRAS40 axis and causes glomerular mesangial cell hypertrophy and matrix protein expression. <i>Journal of Biological Chemistry</i> , 2020, 295, 14262-14278.	3.4	16
63	Fatigue characteristics on dialysis and non-dialysis days in patients with chronic kidney failure on maintenance hemodialysis. <i>BMC Nephrology</i> , 2021, 22, 112.	1.8	16
64	Angiotensin II inhibits insulin-stimulated phosphorylation of eukaryotic initiation factor 4E-binding protein-1 in proximal tubular epithelial cells. <i>Biochemical Journal</i> , 2001, 360, 87.	3.7	15
65	Hydrogen sulfide to the rescue in obstructive kidney injury. <i>Kidney International</i> , 2014, 85, 1255-1258.	5.2	15
66	Combined acute hyperglycemic and hyperinsulinemic clamp induced profibrotic and proinflammatory responses in the kidney. <i>American Journal of Physiology - Cell Physiology</i> , 2014, 306, C202-C211.	4.6	15
67	Hydrophobic motif site-phosphorylated protein kinase C β II between mTORC2 and Akt regulates high glucose-induced mesangial cell hypertrophy. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C583-C596.	4.6	15
68	The tumor suppressor TMEM127 regulates insulin sensitivity in a tissue-specific manner. <i>Nature Communications</i> , 2019, 10, 4720.	12.8	14
69	High glucose increases miR β 14 to power a feedback loop involving PTEN and the Akt/mTORC1 signaling axis. <i>FEBS Letters</i> , 2019, 593, 2261-2272.	2.8	14
70	microRNA-181a downregulates dephosphorylation of mTOR for TGF β 2-induced glomerular mesangial cell hypertrophy and matrix protein expression. <i>Experimental Cell Research</i> , 2018, 364, 5-15.	2.6	13
71	HIV-1 Promotes Renal Tubular Epithelial Cell Protein Synthesis: Role of mTOR Pathway. <i>PLoS ONE</i> , 2012, 7, e30071.	2.5	11
72	Chloride channel accessory 1 integrates chloride channel activity and mTORC1 in aging β related kidney injury. <i>Aging Cell</i> , 2021, 20, e13407.	6.7	11

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73	Quality of Life and Depression Among Mexican Americans on Hemodialysis: A Preliminary Report. Therapeutic Apheresis and Dialysis, 2018, 22, 166-170.	0.9	10
74	Proximal tubular epithelial insulin receptor mediates high-fat diet-induced kidney injury. JCI Insight, 2021, 6, .	5.0	8
75	Branched-Chain Amino Acids Depletion during Hemodialysis Is Associated with Fatigue. American Journal of Nephrology, 2020, 51, 565-571.	3.1	7
76	High glucose-stimulated enhancer of zeste homolog-2 (EZH2) forces suppression of deptor to cause glomerular mesangial cell pathology. Cellular Signalling, 2021, 86, 110072.	3.6	6
77	Oncoprotein DJ-1 interacts with mTOR complexes to effect transcription factor Hif1 α -dependent expression of collagen I (α 2) during renal fibrosis. Journal of Biological Chemistry, 2022, 298, 102246.	3.4	5
78	Rapamycin selectively alters serum chemistry in diabetic mice. Pathobiology of Aging & Age Related Diseases, 2012, 2, 15896.	1.1	4
79	Genetic Variants in Toll-Like Receptor 4 Gene and Their Association Analysis with Estimated Glomerular Filtration Rate in Mexican American Families. CardioRenal Medicine, 2016, 6, 301-306.	1.9	3
80	mRNA Translation in Diabetic Nephropathy. , 2006, , 97-116.		3
81	The podocyte and the proteoglycan. American Journal of Physiology - Renal Physiology, 2016, 311, F310-F311.	2.7	1
82	Hydrogen Sulfide and the Kidney. Advances in Experimental Medicine and Biology, 2021, 1315, 17-50.	1.6	0