Seung-Hoi Koo

List of Publications by Citations

93 papers	8,152 citations	39 h-index	90 g-index
97 ext. papers	9,144 ext. citations	10.6 avg, IF	5.67 L-index

#	Paper	IF	Citations
93	The kinase LKB1 mediates glucose homeostasis in liver and therapeutic effects of metformin. *Science*, **2005**, 310, 1642-6	33.3	1499
92	The CREB coactivator TORC2 is a key regulator of fasting glucose metabolism. *Nature*, **2005**, 437, 1109-11	50.4	783
91	Genome-wide analysis of cAMP-response element binding protein occupancy, phosphorylation, and target gene activation in human tissues. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 4459-64	11.5	756
90	PGC-1 promotes insulin resistance in liver through PPAR-alpha-dependent induction of TRB-3. *Nature Medicine*, **2004**, 10, 530-4	50.5	458
89	FoxO1 regulates multiple metabolic pathways in the liver: effects on gluconeogenic, glycolytic, and lipogenic gene expression. *Journal of Biological Chemistry*, **2006**, 281, 10105-17	5.4	372
88	Insulin modulates gluconeogenesis by inhibition of the coactivator TORC2. *Nature*, **2007**, 449, 366-9	50.4	315
87	Nonalcoholic fatty liver disease: molecular mechanisms for the hepatic steatosis. *Clinical and Molecular Hepatology*, **2013**, 19, 210-5	6.9	241
86	CREB controls hepatic lipid metabolism through nuclear hormone receptor PPAR-gamma. *Nature*, **2003**, 426, 190-3	50.4	239
85	Regulation of glucose metabolism from a liver-centric perspective. *Experimental and Molecular Medicine*, **2016**, 48, e218	12.8	231
84	Regulation of hepatic gluconeogenesis by an ER-bound transcription factor, CREBH. *Cell Metabolism*, **2010**, 11, 331-9	24.6	148
83	CREB and FoxO1: two transcription factors for the regulation of hepatic gluconeogenesis. *BMB Reports*, **2013**, 46, 567-74	5.5	139
82	Different sterol regulatory element-binding protein-1 isoforms utilize distinct co-regulatory factors to activate the promoter for fatty acid synthase. *Journal of Biological Chemistry*, **2000**, 275, 4726-33	5.4	128
81	Systemic autophagy insufficiency compromises adaptation to metabolic stress and facilitates progression from obesity to diabetes. *Nature Communications*, **2014**, 5, 4934	17.4	126
80	Glucose and insulin function through two distinct transcription factors to stimulate expression of lipogenic enzyme genes in liver. *Journal of Biological Chemistry*, **2001**, 276, 9437-45	5.4	113
79	AMPK-dependent repression of hepatic gluconeogenesis via disruption of CREB.CRTC2 complex by orphan nuclear receptor small heterodimer partner. *Journal of Biological Chemistry*, **2010**, 285, 32182-91	5.4	108
78	Involvement of a unique carbohydrate-responsive factor in the glucose regulation of rat liver fatty-acid synthase gene transcription. *Journal of Biological Chemistry*, **2001**, 276, 21969-75	5.4	93
77	Orphan nuclear receptor estrogen-related receptor [(ERR]is key regulator of hepatic gluconeogenesis. *Journal of Biological Chemistry*, **2012**, 287, 21628-39	5.4	90

76	RORInduces KLF4-Mediated M2 Polarization in the Liver Macrophages that Protect against Nonalcoholic Steatohepatitis. *Cell Reports*, **2017**, 20, 124-135	10.6	82
75	Smad6 inhibits non-canonical TGF-1 signalling by recruiting the deubiquitinase A20 to TRAF6. *Nature Communications*, **2013**, 4, 2562	17.4	74
74	PPAR-activation increases insulin secretion through the up-regulation of the free fatty acid receptor GPR40 in pancreatic cells. *PLoS ONE*, **2013**, 8, e50128	3.7	74
73	TORC2 regulates hepatic insulin signaling via a mammalian phosphatidic acid phosphatase, LIPIN1. *Cell Metabolism*, **2009**, 9, 240-51	24.6	69
72	Glucose regulation of the acetyl-CoA carboxylase promoter PI in rat hepatocytes. *Journal of Biological Chemistry*, **2001**, 276, 16033-9	5.4	66
71	Glucose regulation of mouse S(14) gene expression in hepatocytes. Involvement of a novel transcription factor complex. *Journal of Biological Chemistry*, **2000**, 275, 5200-7	5.4	65
70	Identification of the tyrosine phosphatase PTP-MEG2 as an antagonist of hepatic insulin signaling. *Cell Metabolism*, **2006**, 3, 367-78	24.6	62
69	Dual role of the coactivator TORC2 in modulating hepatic glucose output and insulin signaling. *Cell Metabolism*, **2005**, 2, 331-8	24.6	58
68	TCF7L2 modulates glucose homeostasis by regulating CREB- and FoxO1-dependent transcriptional pathway in the liver. *PLoS Genetics*, **2012**, 8, e1002986	6	56
67	Suppressor of MEK null (SMEK)/protein phosphatase 4 catalytic subunit (PP4C) is a key regulator of hepatic gluconeogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 17704-9	11.5	54
66	Prmt7 Deficiency Causes Reduced Skeletal Muscle Oxidative Metabolism and Age-Related Obesity. *Diabetes*, **2016**, 65, 1868-82	0.9	53
65	Inverse agonist of nuclear receptor ERRmediates antidiabetic effect through inhibition of hepatic gluconeogenesis. *Diabetes*, **2013**, 62, 3093-102	0.9	52
64	Small Molecules Facilitate Single Factor-Mediated Hepatic Reprogramming. *Cell Reports*, **2016**, 15, 814-829	9.6	51
63	Estrogen-related receptor controls hepatic CB1 receptor-mediated CYP2E1 expression and oxidative liver injury by alcohol. *Gut*, **2013**, 62, 1044-54	19.2	50
62	Cannabinoid receptor type 1 (CB1R) signaling regulates hepatic gluconeogenesis via induction of endoplasmic reticulum-bound transcription factor cAMP-responsive element-binding protein H (CREBH) in primary hepatocytes. *Journal of Biological Chemistry*, **2011**, 286, 27971-9	5.4	50
61	In vino veritas: a tale of two sirt1s?. *Cell*, **2006**, 127, 1091-3	56.2	49
60	Endoplasmic reticulum stress promotes LIPIN2-dependent hepatic insulin resistance. *Diabetes*, **2011**, 60, 1072-81	0.9	48
59	Protein arginine methyltransferase 1 regulates hepatic glucose production in a FoxO1-dependent manner. *Hepatology*, **2012**, 56, 1546-56	11.2	47

58	Olfactory receptor 544 reduces adiposity by steering fuel preference toward fats. *Journal of Clinical Investigation*, **2017**, 127, 4118-4123	15.9	44
57	Salt-inducible kinase regulates hepatic lipogenesis by controlling SREBP-1c phosphorylation. *Journal of Biological Chemistry*, **2009**, 284, 10446-52	5.4	43
56	Transcriptional regulators of hepatic gluconeogenesis. *Archives of Pharmacal Research*, **2013**, 36, 189-200	6.1	42
55	SIK2 is critical in the regulation of lipid homeostasis and adipogenesis in vivo. *Diabetes*, **2014**, 63, 3659-73	8.9	41
54	Fibroblast growth factor 21 analogue LY2405319 lowers blood glucose in streptozotocin-induced insulin-deficient diabetic mice by restoring brown adipose tissue function. *Diabetes, Obesity and Metabolism*, **2015**, 17, 161-9	6.7	39
53	Retinoic acid-related orphan receptor alpha reprograms glucose metabolism in glutamine-deficient hepatoma cells. *Hepatology*, **2015**, 61, 953-64	11.2	39
52	Atypical antipsychotic drugs perturb AMPK-dependent regulation of hepatic lipid metabolism. *American Journal of Physiology - Endocrinology and Metabolism*, **2011**, 300, E624-32	6	38
51	The orphan nuclear receptor estrogen receptor-related receptor gamma negatively regulates BMP2-induced osteoblast differentiation and bone formation. *Journal of Biological Chemistry*, **2009**, 284, 14211-8	5.4	37
50	Retinoic acid receptor-related orphan receptor □induced activation of adenosine monophosphate-activated protein kinase results in attenuation of hepatic steatosis. *Hepatology*, **2012**, 55, 1379-88	11.2	36
49	Curcumin differentially regulates endoplasmic reticulum stress through transcriptional corepressor SMILE (small heterodimer partner-interacting leucine zipper protein)-mediated inhibition of CREBH (cAMP responsive element-binding protein H). *Journal of Biological Chemistry*, **2011**, 286, 41972-41984	5.4	36
48	DAX-1 acts as a novel corepressor of orphan nuclear receptor HNF4alpha and negatively regulates gluconeogenic enzyme gene expression. *Journal of Biological Chemistry*, **2009**, 284, 27511-23	5.4	35
47	Skeletal muscle-specific Prmt1 deletion causes muscle atrophy via deregulation of the PRMT6-FOXO3 axis. *Autophagy*, **2019**, 15, 1069-1081	10.2	35
46	Loss of the E3 ubiquitin ligase MKRN1 represses diet-induced metabolic syndrome through AMPK activation. *Nature Communications*, **2018**, 9, 3404	17.4	34
45	Cardiac specific PRMT1 ablation causes heart failure through CaMKII dysregulation. *Nature Communications*, **2018**, 9, 5107	17.4	34
44	PKB/Akt phosphorylation of ERR□contributes to insulin-mediated inhibition of hepatic gluconeogenesis. *Diabetologia*, **2014**, 57, 2576-85	10.3	32
43	Prdm4 induction by the small molecule butein promotes white adipose tissue browning. *Nature Chemical Biology*, **2016**, 12, 479-81	11.7	32
42	Ursodeoxycholic acid inhibits liver X receptor □mediated hepatic lipogenesis via induction of the nuclear corepressor SMILE. *Journal of Biological Chemistry*, **2014**, 289, 1079-91	5.4	31
41	Activation of cannabinoid receptor type 1 (Cb1r) disrupts hepatic insulin receptor signaling via cyclic AMP-response element-binding protein H (Crebh)-mediated induction of Lipin1 gene. *Journal of Biological Chemistry*, **2012**, 287, 38041-9	5.4	30

40	Ring finger protein20 regulates hepatic lipid metabolism through protein kinase A-dependent sterol regulatory element binding protein1c degradation. *Hepatology*, **2014**, 60, 844-57	11.2	29
39	Hepatic Crtc2 controls whole body energy metabolism via a miR-34a-Fgf21 axis. *Nature Communications*, **2017**, 8, 1878	17.4	28
38	Hepatic cannabinoid receptor type 1 mediates alcohol-induced regulation of bile acid enzyme genes expression via CREBH. *PLoS ONE*, **2013**, 8, e68845	3.7	28
37	The CREB family: key regulators of hepatic metabolism. *Annales DœEndocrinologie*, **2004**, 65, 73-5	1.7	28
36	Transcriptional cross talk between orphan nuclear receptor ERR and transmembrane transcription factor ATF6 coordinates endoplasmic reticulum stress response. *Nucleic Acids Research*, **2013**, 41, 6960-74	20.1	25
35	Protein arginine methylation facilitates KCNQ channel-PIP2 interaction leading to seizure suppression. *ELife*, **2016**, 5,	8.9	25
34	Salt-Inducible Kinase 1 Terminates cAMP Signaling by an Evolutionarily Conserved Negative-Feedback Loop in Cells. *Diabetes*, **2015**, 64, 3189-202	0.9	24
33	Metformin stimulates IGFBP-2 gene expression through PPARalpha in diabetic states. *Scientific Reports*, **2016**, 6, 23665	4.9	24
32	Arginine methylation of CRTC2 is critical in the transcriptional control of hepatic glucose metabolism. *Science Signaling*, **2014**, 7, ra19	8.8	24
31	PDK4 Deficiency Suppresses Hepatic Glucagon Signaling by Decreasing cAMP Levels. *Diabetes*, **2018**, 67, 2054-2068	0.9	23
30	HBx induces the proliferation of hepatocellular carcinoma cells via AP1 over-expressed as a result of ER stress. *Biochemical Journal*, **2015**, 466, 115-21	3.8	23
29	C1-Ten is a protein tyrosine phosphatase of insulin receptor substrate 1 (IRS-1), regulating IRS-1 stability and muscle atrophy. *Molecular and Cellular Biology*, **2013**, 33, 1608-20	4.8	23
28	Adiponectin and thiazolidinedione targets CRTC2 to regulate hepatic gluconeogenesis. *Experimental and Molecular Medicine*, **2009**, 41, 577-83	12.8	23
27	Phosphoenolpyruvate carboxykinase and glucose-6-phosphatase are required for steroidogenesis in testicular Leydig cells. *Journal of Biological Chemistry*, **2012**, 287, 41875-87	5.4	19
26	Cyclic AMP Response Element-binding Protein H (CREBH) Mediates the Inhibitory Actions of Tumor Necrosis Factor In Osteoblast Differentiation by Stimulating Smad1 Degradation. *Journal of Biological Chemistry*, **2015**, 290, 13556-66	5.4	18
25	Insulin-Inducible SMILE Inhibits Hepatic Gluconeogenesis. *Diabetes*, **2016**, 65, 62-73	0.9	18
24	Roles of protein arginine methyltransferases in the control of glucose metabolism. *Endocrinology and Metabolism*, **2014**, 29, 435-40	3.5	18
23	CREB/CRTC2 controls GLP-1-dependent regulation of glucose homeostasis. *FASEB Journal*, **2018**, 32, 1566-1578	0.9	18

22	Orphan nuclear receptor Err induces C-reactive protein gene expression through induction of ER-bound Bzip transmembrane transcription factor CREBH. *PLoS ONE*, **2014**, 9, e86342	3.7	16
21	Fatty acids and insulin resistance: a perfect storm. *Molecular Cell*, **2006**, 21, 449-50	17.6	16
20	Orphan nuclear receptor DAX-1 acts as a novel corepressor of liver X receptor alpha and inhibits hepatic lipogenesis. *Journal of Biological Chemistry*, **2010**, 285, 9221-32	5.4	15
19	Bax Inhibitor-1 regulates hepatic lipid accumulation via ApoB secretion. *Scientific Reports*, **2016**, 6, 27799	4.9	14
18	Overweight in mice and enhanced adipogenesis in vitro are associated with lack of the hedgehog coreceptor boc. *Diabetes*, **2015**, 64, 2092-103	0.9	13
17	The SMILE transcriptional corepressor inhibits cAMP response element-binding protein (CREB)-mediated transactivation of gluconeogenic genes. *Journal of Biological Chemistry*, **2018**, 293, 13125-13133	5.4	11
16	Fast food diet-induced non-alcoholic fatty liver disease exerts early protective effect against acetaminophen intoxication in mice. *BMC Gastroenterology*, **2017**, 17, 124	3	10
15	Effect of BI-1 on insulin resistance through regulation of CYP2E1. *Scientific Reports*, **2016**, 6, 32229	4.9	10
14	Salt-inducible kinase 1 regulates bone anabolism via the CRTC1-CREB-Id1 axis. *Cell Death and Disease*, **2019**, 10, 826	9.8	10
13	PRMT1 Is Required for the Maintenance of Mature Cell Identity. *Diabetes*, **2020**, 69, 355-368	0.9	9
12	NFIL3 is a negative regulator of hepatic gluconeogenesis. *Metabolism: Clinical and Experimental*, **2017**, 77, 13-22	12.7	7
11	Cannabinoid type 1 receptor gene polymorphisms are not associated with olanzapine-induced weight gain. *Human Psychopharmacology*, **2011**, 26, 332-7	2.3	7
10	Vibrio vulnificus Secretes an Insulin-degrading Enzyme That Promotes Bacterial Proliferation in Vivo. *Journal of Biological Chemistry*, **2015**, 290, 18708-20	5.4	5
9	Reply: To PMID 22532369. *Hepatology*, **2013**, 57, 2091	11.2	3
8	Prominin-1-Radixin axis controls hepatic gluconeogenesis by regulating PKA activity. *EMBO Reports*, **2020**, 21, e49416	6.5	3
7	Liver-Specific Deletion of Mouse CTCF Leads to Hepatic Steatosis via Augmented PPAR Signaling. *Cellular and Molecular Gastroenterology and Hepatology*, **2021**, 12, 1761-1787	7.9	3
6	Essential Role of Protein Arginine Methyltransferase 1 in Pancreas Development by Regulating Protein Stability of Neurogenin 3. *Diabetes and Metabolism Journal*, **2019**, 43, 649-658	5	2
5	Role of CRTC2 in Metabolic Homeostasis: Key Regulator of Whole-Body Energy Metabolism?. *Diabetes and Metabolism Journal*, **2020**, 44, 498-508	5	1

4	Prominin-1-Radixin Axis controls hepatic gluconeogenesis by regulating PKA activity		1
3	Depletion of in Adipocytes Impairs Glucose Homeostasis in Diet-Induced Obesity. *Diabetes*, **2021**, 70, 1664-1678	0.9	1
2	A novel role of CRTC2 in promoting nonalcoholic fatty liver disease. *Molecular Metabolism*, **2021**, 101402	8.8	0
1	Obesity and ER Stress. *The Korean Journal of Obesity*, **2011**, 20, 45		