Do-Hyung Kim

List of Publications by Citations

57 papers	17,938 citations	31 h-index	59 g-index
59 ext. papers	19,800 ext. citations	7.4 avg, IF	5.72 L-index

#	Paper	IF	Citations
57	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
56	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
55	mTOR interacts with raptor to form a nutrient-sensitive complex that signals to the cell growth machinery. *Cell*, **2002**, 110, 163-75	56.2	2322
54	Rictor, a novel binding partner of mTOR, defines a rapamycin-insensitive and raptor-independent pathway that regulates the cytoskeleton. *Current Biology*, **2004**, 14, 1296-302	6.3	2067
53	mTOR regulation of autophagy. *FEBS Letters*, **2010**, 584, 1287-95	3.8	1495
52	ULK-Atg13-FIP200 complexes mediate mTOR signaling to the autophagy machinery. *Molecular Biology of the Cell*, **2009**, 20, 1992-2003	3.5	1434
51	Insulin signalling to mTOR mediated by the Akt/PKB substrate PRAS40. *Nature Cell Biology*, **2007**, 9, 316-23	23.4	897
50	GbetaL, a positive regulator of the rapamycin-sensitive pathway required for the nutrient-sensitive interaction between raptor and mTOR. *Molecular Cell*, **2003**, 11, 895-904	17.6	747
49	Local structural elements in the mostly unstructured transcriptional activation domain of human p53. *Journal of Biological Chemistry*, **2000**, 275, 29426-32	5.4	257
48	Hsp90-Cdc37 chaperone complex regulates Ulk1- and Atg13-mediated mitophagy. *Molecular Cell*, **2011**, 43, 572-85	17.6	173
47	The ULK1 complex mediates MTORC1 signaling to the autophagy initiation machinery via binding and phosphorylating ATG14. *Autophagy*, **2016**, 12, 547-64	10.2	163
46	mTORC1 phosphorylates UVRAG to negatively regulate autophagosome and endosome maturation. *Molecular Cell*, **2015**, 57, 207-18	17.6	162
45	PRR5, a novel component of mTOR complex 2, regulates platelet-derived growth factor receptor beta expression and signaling. *Journal of Biological Chemistry*, **2007**, 282, 25604-12	5.4	155
44	Epigenetic regulation of autophagy by the methyltransferase G9a. *Molecular and Cellular Biology*, **2013**, 33, 3983-93	4.8	133
43	Glycolytic flux signals to mTOR through glyceraldehyde-3-phosphate dehydrogenase-mediated regulation of Rheb. *Molecular and Cellular Biology*, **2009**, 29, 3991-4001	4.8	127
42	ULK1 inhibits the kinase activity of mTORC1 and cell proliferation. *Autophagy*, **2011**, 7, 1212-21	10.2	122
41	Transactivation ability of p53 transcriptional activation domain is directly related to the binding affinity to TATA-binding protein. *Journal of Biological Chemistry*, **1995**, 270, 25014-9	5.4	96

40	ULK1 phosphorylates Ser30 of BECN1 in association with ATG14 to stimulate autophagy induction. *Autophagy*, **2018**, 14, 584-597	10.2	73
39	SH3BP4 is a negative regulator of amino acid-Rag GTPase-mTORC1 signaling. *Molecular Cell*, **2012**, 46, 833-46	17.6	67
38	Distinct functions of Ulk1 and Ulk2 in the regulation of lipid metabolism in adipocytes. *Autophagy*, **2013**, 9, 2103-14	10.2	56
37	Cyclic AMP controls mTOR through regulation of the dynamic interaction between Rheb and phosphodiesterase 4D. *Molecular and Cellular Biology*, **2010**, 30, 5406-20	4.8	50
36	Crystal structure of the Gtr1p(GTP)-Gtr2p(GDP) protein complex reveals large structural rearrangements triggered by GTP-to-GDP conversion. *Journal of Biological Chemistry*, **2012**, 287, 29648-53	5.4	50
35	mTORC1 Coordinates Protein Synthesis and Immunoproteasome Formation via PRAS40 to Prevent Accumulation of Protein Stress. *Molecular Cell*, **2016**, 61, 625-639	17.6	46
34	PLD2 forms a functional complex with mTOR/raptor to transduce mitogenic signals. *Cellular Signalling*, **2006**, 18, 2283-91	4.9	45
33	Asp-99 donates a hydrogen bond not to Tyr-14 but to the steroid directly in the catalytic mechanism of Delta 5-3-ketosteroid isomerase from Pseudomonas putida biotype B. *Biochemistry*, **2000**, 39, 903-9	3.2	43
32	Contribution of the hydrogen-bond network involving a tyrosine triad in the active site to the structure and function of a highly proficient ketosteroid isomerase from Pseudomonas putida biotype B. *Biochemistry*, **2000**, 39, 4581-9	3.2	40
31	mRNA 3UUTR shortening is a molecular signature of mTORC1 activation. *Nature Communications*, **2015**, 6, 7218	17.4	37
30	Hsf1 activation inhibits rapamycin resistance and TOR signaling in yeast revealed by combined proteomic and genetic analysis. *PLoS ONE*, **2008**, 3, e1598	3.7	37
29	The role of Tyr248 probed by mutant bovine carboxypeptidase A: insight into the catalytic mechanism of carboxypeptidase A. *Biochemistry*, **2001**, 40, 10197-203	3.2	35
28	Role of catalytic residues in enzymatic mechanisms of homologous ketosteroid isomerases. *Biochemistry*, **2000**, 39, 13891-6	3.2	34
27	GABARAPs and LC3s have opposite roles in regulating ULK1 for autophagy induction. *Autophagy*, **2020**, 16, 600-614	10.2	32
26	Quantitative nuclear proteomics identifies mTOR regulation of DNA damage response. *Molecular and Cellular Proteomics*, **2010**, 9, 403-14	7.6	31
25	15N NMR relaxation studies of backbone dynamics in free and steroid-bound Delta 5-3-ketosteroid isomerase from Pseudomonas testosteroni. *Biochemistry*, **2001**, 40, 3967-73	3.2	30
24	Expression, purification, and identification of a novel self-cleavage site of the Nla C-terminal 27-kDa protease of turnip mosaic potyvirus C5. *Virology*, **1995**, 213, 517-25	3.6	26
23	Effects of internal cleavages and mutations in the C-terminal region of NIa protease of turnip mosaic potyvirus on the catalytic activity. *Virology*, **1996**, 226, 183-90	3.6	23

22	Uncoordinated 51-like kinase 2 signaling pathway regulates epithelial-mesenchymal transition in A549 lung cancer cells. *FEBS Letters*, **2016**, 590, 1365-74	3.8	22
21	Roles of active site aromatic residues in catalysis by ketosteroid isomerase from Pseudomonas putida biotype B. *Biochemistry*, **1999**, 38, 13810-9	3.2	19
20	Folding mechanism of ketosteroid isomerase from Comamonas testosteroni. *Biochemistry*, **2001**, 40, 5011-7	3.2	17
19	Unconventional Secretion of Adipocyte Fatty Acid Binding Protein 4 Is Mediated By Autophagic Proteins in a Sirtuin-1-Dependent Manner. *Diabetes*, **2019**, 68, 1767-1777	0.9	16
18	Roles of dimerization in folding and stability of ketosteroid isomerase from Pseudomonas putida biotype B. *Protein Science*, **2001**, 10, 741-52	6.3	16
17	dRAGging amino acid-mTORC1 signaling by SH3BP4. *Molecules and Cells*, **2013**, 35, 1-6	3.5	14
16	Equilibrium and kinetic analysis of folding of ketosteroid isomerase from Comamonas testosteroni. *Biochemistry*, **2000**, 39, 13084-92	3.2	14
15	Characterization of Nla protease from turnip mosaic potyvirus exhibiting a low-temperature optimum catalytic activity. *Virology*, **1996**, 221, 245-9	3.6	14
14	-(1-Benzyl-3,5-dimethyl-1-pyrazol-4-yl)benzamides: Antiproliferative Activity and Effects on mTORC1 and Autophagy. *ACS Medicinal Chemistry Letters*, **2017**, 8, 90-95	4.3	10
13	Maintenance of alpha-helical structures by phenyl rings in the active-site tyrosine triad contributes to catalysis and stability of ketosteroid isomerase from Pseudomonas putida biotype B. *Biochemistry*, **2001**, 40, 13529-37	3.2	10
12	Effects of mutations in the C-terminal region of NIa protease on cis-cleavage between NIa and NIb. *Virology*, **1998**, 241, 94-100	3.6	9
11	Characterization of active-site residues of the NIa protease from tobacco vein mottling virus. *Molecules and Cells*, **2000**, 10, 505-11	3.5	9
10	GbetaL regulates TNFalpha-induced NF-kappaB signaling by directly inhibiting the activation of IkappaB kinase. *Cellular Signalling*, **2008**, 20, 2127-33	4.9	8
9	Molecular cloning, expression, and purification of nuclear inclusion A protease from tobacco vein mottling virus. *Molecules and Cells*, **2000**, 10, 148-55	3.5	7
8	A Novel Mechanism for NF-B-activation via IB-aggregation: Implications for Hepatic Mallory-Denk-Body Induced Inflammation. *Molecular and Cellular Proteomics*, **2020**, 19, 1968-1986	7.6	6
7	Down regulation of Peroxiredoxin-3 in 3T3-L1 adipocytes leads to oxidation of Rictor in the mammalian-target of rapamycin complex 2 (mTORC2). *Biochemical and Biophysical Research Communications*, **2017**, 493, 1311-1317	3.4	5
6	An expanded role for mTORC1 in autophagy. *Molecular and Cellular Oncology*, **2016**, 3, e1010958	1.2	5
5	Contribution of conserved amino acids at the dimeric interface to the conformational stability and the structural integrity of the active site in ketosteroid isomerase from Pseudomonas putida biotype B. *Journal of Biochemistry*, **2003**, 134, 101-10	3.1	5

List of Publications

4	Temperature and salt effects on proteolytic function of turnip mosaic potyvirus nuclear inclusion protein a exhibiting a low-temperature optimum activity. *BBA - Proteins and Proteomics*, **2000**, 1480, 29-40		5
3	Defective autophagy and increased apoptosis contribute toward the pathogenesis of FKRP-associated muscular dystrophies. *Stem Cell Reports*, **2021**, 16, 2752-2767	8	1
2	Potyvirus NIa Protease **2013**, 2427-2432		
1	Immunoproteasome Inhibition to Target AML with Activated RAS Pathways. *Blood*, **2016**, 128, 577-577	2.2	