

# Tae-Wook Chung

## List of Publications by Year in descending order

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99  
papers

4,232  
citations

172457

29  
h-index

118850

62  
g-index

100  
all docs

100  
docs citations

100  
times ranked

6662  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tyrosine Phosphorylation Inhibits PKM2 to Promote the Warburg Effect and Tumor Growth. <i>Science Signaling</i> , 2009, 2, ra73.	3.6	632
2	Novel and therapeutic effect of caffeic acid and caffeic acid phenyl ester on hepatocarcinoma cells: complete regression of hepatoma growth and metastasis by dual mechanism. <i>FASEB Journal</i> , 2004, 18, 1670-1681.	0.5	407
3	Hepatitis B viral HBx induces matrix metalloproteinase-9 gene expression through activation of ERKs and PI3K/AKT pathways: Involvement of invasive potential. <i>FASEB Journal</i> , 2004, 18, 1123-1125.	0.5	296
4	Tyrosine Phosphorylation of Mitochondrial Pyruvate Dehydrogenase Kinase 1 Is Important for Cancer Metabolism. <i>Molecular Cell</i> , 2011, 44, 864-877.	9.7	278
5	Tyrosine Phosphorylation of Lactate Dehydrogenase A Is Important for NADH/NAD <sup>+</sup> Redox Homeostasis in Cancer Cells. <i>Molecular and Cellular Biology</i> , 2011, 31, 4938-4950.	2.3	193
6	Hepatitis B Virus X protein modulates the expression of PTEN by inhibiting the function of p53, a transcriptional activator in liver cells. <i>Cancer Research</i> , 2003, 63, 3453-8.	0.9	109
7	The naturally occurring biflavonoid, ochnaflavone, inhibits LPS-induced iNOS expression, which is mediated by ERK1/2 via NF- $\kappa$ B regulation, in RAW264.7 cells. <i>Archives of Biochemistry and Biophysics</i> , 2006, 447, 136-146.	3.0	88
8	Ganglioside GM3 inhibits VEGF/VEGFR-2-mediated angiogenesis: Direct interaction of GM3 with VEGFR-2. <i>Glycobiology</i> , 2008, 19, 229-239.	2.5	83
9	Anti-inflammatory Effect of Ascochlorin in LPS-stimulated RAW 264.7 Macrophage Cells Is Accompanied With the Down-regulation of iNOS, COX-2 and Proinflammatory Cytokines Through NF- $\kappa$ B, ERK1/2, and p38 2.6 Signaling Pathway. <i>Journal of Cellular Biochemistry</i> , 2016, 117, 978-987.	2.6	83
10	Increased $\alpha$ 2-6 sialylation of endometrial cells contributes to the development of endometriosis. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-12.	7.7	74
11	Enhanced expression of matrix metalloproteinase-9 by hepatitis B virus infection in liver cells. <i>Archives of Biochemistry and Biophysics</i> , 2002, 408, 147-154.	3.0	69
12	The Hepatitis B Virus X Protein Inhibits Secretion of Apolipoprotein B by Enhancing the Expression of N-Acetylglucosaminyltransferase III. <i>Journal of Biological Chemistry</i> , 2004, 279, 28106-28112.	3.4	69
13	Marine algal fucoxanthin inhibits the metastatic potential of cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 580-585.	2.1	65
14	Caffeic acid phenyl ester in propolis is a strong inhibitor of matrix metalloproteinase-9 and invasion inhibitor: Isolation and identification. <i>Clinica Chimica Acta</i> , 2005, 362, 57-64.	1.1	64
15	A Novel Lactate Dehydrogenase Inhibitor, 1-(Phenylseleno)-4-(Trifluoromethyl) Benzene, Suppresses Tumor Growth through Apoptotic Cell Death. <i>Scientific Reports</i> , 2019, 9, 3969.	3.3	62
16	Ganglioside GM3 modulates tumor suppressor PTEN-mediated cell cycle progression transcriptional induction of p21WAF1 and p27kip1 by inhibition of PI-3K/AKT pathway. <i>Glycobiology</i> , 2006, 16, 573-583.	2.5	61
17	Tyr-301 Phosphorylation Inhibits Pyruvate Dehydrogenase by Blocking Substrate Binding and Promotes the Warburg Effect. <i>Journal of Biological Chemistry</i> , 2014, 289, 26533-26541.	3.4	61
18	Catalpol suppresses advanced glycation end-products-induced inflammatory responses through inhibition of reactive oxygen species in human monocytic THP-1 cells. <i>Anti-cancer Res</i> , 2013, 33, 19-28.	2.2	58

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19	Tyr-94 Phosphorylation Inhibits Pyruvate Dehydrogenase Phosphatase 1 and Promotes Tumor Growth. <i>Journal of Biological Chemistry</i> , 2014, 289, 21413-21422.	3.4	50
20	Luteolin inhibits recruitment of monocytes and migration of Lewis lung carcinoma cells by suppressing chemokine (Câ€C motif) ligand 2 expression in tumor-associated macrophage. <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 101-106.	2.1	49
21	Molecular mechanism for transcriptional activation of ganglioside GM3 synthase and its function in differentiation of HL-60 cells. <i>Glycobiology</i> , 2004, 15, 233-244.	2.5	48
22	Caffeic Acid Phenethyl Ester Inhibits Alpha-Melanocyte Stimulating Hormone-Induced Melanin Synthesis through Suppressing Transactivation Activity of Microphthalmia-Associated Transcription Factor. <i>Journal of Natural Products</i> , 2013, 76, 1399-1405.	3.0	45
23	Integrin $\alpha 2 \beta 3$ and $\alpha 5 \beta 1$ are required for leukemia inhibitory factor-mediated the adhesion of trophoblast cells to the endometrial cells. <i>Biochemical and Biophysical Research Communications</i> , 2016, 469, 936-940.	2.1	42
24	Ascofuranone inhibits lipopolysaccharideâ€-induced inflammatory response via NF- $\kappa$ B and AP-1, p-ERK, TNF- $\alpha$ , IL-6 and IL-1 $\beta$ in RAW 264.7 macrophages. <i>PLoS ONE</i> , 2017, 12, e0171322.	2.5	42
25	Oldenlandia diffusa suppresses metastatic potential through inhibiting matrix metalloproteinase-9 and intercellular adhesion molecule-1 expression via p38 and ERK1/2 MAPK pathways and induces apoptosis in human breast cancer MCF-7 cells. <i>Journal of Ethnopharmacology</i> , 2017, 195, 309-317.	4.1	35
26	The Ganglioside GM3 Is Associated with Cisplatin-Induced Apoptosis in Human Colon Cancer Cells. <i>PLoS ONE</i> , 2014, 9, e92786.	2.5	33
27	Pimaric acid from <i>Aralia cordata</i> has an inhibitory effect on TNF- $\alpha$ -induced MMP-9 production and HASMC migration via down-regulated NF- $\kappa$ B and AP-1. <i>Chemico-Biological Interactions</i> , 2012, 199, 112-119.	4.0	31
28	Ganglioside GM3 participates in the TGF- $\beta 1$ -induced epithelialâ€-mesenchymal transition of human lens epithelial cells. <i>Biochemical Journal</i> , 2013, 449, 241-251.	3.7	31
29	Ganglioside GM3 suppresses lipopolysaccharideâ€-induced inflammatory responses in RAW 264.7 macrophage cells through NF- $\kappa$ B, AP-1, and MAPKs signaling. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 1173-1182.	2.6	31
30	Mitochondrial reprogramming via ATP5H loss promotes multimodal cancer therapy resistance. <i>Journal of Clinical Investigation</i> , 2018, 128, 4098-4114.	8.2	31
31	p90RSK2 is essential for FLT3-ITDâ€- but dispensable for BCR-ABLâ€-induced myeloid leukemia. <i>Blood</i> , 2011, 117, 6885-6894.	1.4	30
32	HSP70-1 is required for interleukin-5-induced angiogenic responses through eNOS pathway. <i>Scientific Reports</i> , 2017, 7, 44687.	3.3	30
33	Involvement of CREB in the transcriptional regulation of the human GM3 synthase (hST3Gal V) gene during megakaryocytoid differentiation of human leukemia K562 cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 142-147.	2.1	29
34	Lipocalin-2 elicited by advanced glycation end-products promotes the migration of vascular smooth muscle cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 3386-3395.	4.1	29
35	Estrogen induced $\beta 1,4$ -galactosyltransferase 1 expression regulates proliferation of human breast cancer MCF-7 cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 426, 620-625.	2.1	28
36	Monosialic ganglioside GM3 specifically suppresses the monocyte adhesion to endothelial cells for inflammation. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 46, 32-38.	2.8	27

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37	Correlation between plasma levels of matrix metalloproteinase (MMP)-9 /MMP-2 ratio and alpha-fetoproteins in chronic hepatitis carrying hepatitis B virus. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2004, 19, 565-571.	2.8	26
38	A novel cantharidin analog N-Benzylcantharidinamide reduces the expression of MMP-9 and invasive potentials of Hep3B via inhibiting cytosolic translocation of HuR. <i>Biochemical and Biophysical Research Communications</i> , 2014, 447, 371-377.	2.1	26
39	Transcriptional regulation of the human GM3 synthase (hST3Gal V) gene during monocytic differentiation of HL-60 cells. <i>FEBS Letters</i> , 2003, 555, 204-208.	2.8	25
40	Overexpression of transglutaminase 2 accelerates the erythroid differentiation of human chronic myelogenous leukemia K562 cell line through PI3K/Akt signaling pathway. <i>FEBS Letters</i> , 2004, 577, 361-366.	2.8	25
41	Cold stress aggravates inflammatory responses in an LPS-induced mouse model of acute lung injury. <i>International Journal of Biometeorology</i> , 2016, 60, 1217-1225.	3.0	25
42	Sialyllactose suppresses angiogenesis by inhibiting VEGFR-2 activation, and tumor progression. <i>Oncotarget</i> , 2017, 8, 58152-58162.	1.8	25
43	Machilin A Inhibits Tumor Growth and Macrophage M2 Polarization Through the Reduction of Lactic Acid. <i>Cancers</i> , 2019, 11, 963.	3.7	25
44	Transforming growth factor $\beta$ 1 enhances adhesion of endometrial cells to mesothelium by regulating integrin expression. <i>BMB Reports</i> , 2017, 50, 429-434.	2.4	24
45	Esculentoside H inhibits colon cancer cell migration and growth through suppression of MMP-9 gene expression via NF- $\kappa$ B signaling pathway. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 9810-9819.	2.6	23
46	<i>Myristica fragrans</i> Suppresses Tumor Growth and Metabolism by Inhibiting Lactate Dehydrogenase A. <i>The American Journal of Chinese Medicine</i> , 2016, 44, 1063-1079.	3.8	22
47	<i>Panax notoginseng</i> Inhibits Tumor Growth through Activating Macrophage to M1 Polarization. <i>The American Journal of Chinese Medicine</i> , 2018, 46, 1369-1385.	3.8	21
48	CAPE suppresses VEGFR-2 activation, and tumor neovascularization and growth. <i>Journal of Molecular Medicine</i> , 2013, 91, 271-282.	3.9	20
49	Water-extracted <i>Perilla frutescens</i> increases endometrial receptivity through leukemia inhibitory factor-dependent expression of integrins. <i>Journal of Pharmacological Sciences</i> , 2016, 131, 259-266.	2.5	20
50	Hemistepsin A suppresses colorectal cancer growth through inhibiting pyruvate dehydrogenase kinase activity. <i>Scientific Reports</i> , 2020, 10, 21940.	3.3	19
51	The AP-2 transcription factor is required for the ganglioside GM3-stimulated transcriptional regulation of a PTEN gene. <i>Glycobiology</i> , 2008, 18, 395-407.	2.5	18
52	Ilimaquinone Induces the Apoptotic Cell Death of Cancer Cells by Reducing Pyruvate Dehydrogenase Kinase 1 Activity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6021.	4.1	18
53	<i>Paeonia lactiflora</i> Enhances the Adhesion of Trophoblast to the Endometrium via Induction of Leukemia Inhibitory Factor Expression. <i>PLoS ONE</i> , 2016, 11, e0148232.	2.5	18
54	Aesculin inhibits matrix metalloproteinase-9 expression via p38 mitogen activated protein kinase and activator protein 1 in lipopolysaccharide-induced RAW264.7 cells. <i>International Immunopharmacology</i> , 2012, 14, 267-274.	3.8	17

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55	Exogenous and Endogeneous Disialosyl Ganglioside GD1b Induces Apoptosis of MCF-7 Human Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2016, 17, 652.	4.1	17
56	Anemone rivularis inhibits pyruvate dehydrogenase kinase activity and tumor growth. <i>Journal of Ethnopharmacology</i> , 2017, 203, 47-54.	4.1	17
57	Water-extracted tubers of <i>Cyperus rotundus</i> L. enhance endometrial receptivity through leukemia inhibitory factor-mediated expression of integrin $\alpha$ 5 $\beta$ 1 and $\alpha$ 5 $\beta$ 2. <i>Journal of Ethnopharmacology</i> , 2017, 208, 16-23.	4.1	17
58	Huzhangoside A Suppresses Tumor Growth through Inhibition of Pyruvate Dehydrogenase Kinase Activity. <i>Cancers</i> , 2019, 11, 712.	3.7	16
59	Salviae Miltiorrhizae BGE Radix Increases Rat Striatal K <sup>+</sup> -Stimulated Dopamine Release and Activates the Dopamine Release with Protection Against Hydrogen Peroxide-Induced Injury in Rat Pheochromocytoma PC12 Cells. <i>Neurochemical Research</i> , 2006, 31, 109-120.	3.3	15
60	Hepatitis B virus X protein specially regulates the sialyl lewis x synthesis among glycosylation events for metastasis. <i>Molecular Cancer</i> , 2014, 13, 222.	19.2	15
61	Water-extracted branch of <i>Cinnamomum cassia</i> promotes lung cancer cell apoptosis by inhibiting pyruvate dehydrogenase kinase activity. <i>Journal of Pharmacological Sciences</i> , 2018, 138, 146-154.	2.5	15
62	Esculentoside B inhibits inflammatory response through JNK and downstream NF- $\kappa$ B signaling pathway in LPS-triggered murine macrophage RAW 264.7 cells. <i>International Immunopharmacology</i> , 2019, 68, 156-163.	3.8	15
63	The function of cancer-shed gangliosides in macrophage phenotype: involvement with angiogenesis. <i>Oncotarget</i> , 2017, 8, 4436-4448.	1.8	15
64	Induction of Apoptosis and Antitumor Activity of Eel Skin Mucus, Containing Lactose-Binding Molecules, on Human Leukemic K562 Cells. <i>Marine Drugs</i> , 2015, 13, 3936-3949.	4.6	14
65	Inhibition of lung cancer growth by HangAmDan-B is mediated by macrophage activation to M1 subtype. <i>Oncology Letters</i> , 2017, 13, 2330-2336.	1.8	14
66	Ascochlorin induces caspase-independent necroptosis in LPS-stimulated RAW 264.7 macrophages. <i>Journal of Ethnopharmacology</i> , 2019, 239, 111898.	4.1	14
67	Paeoniflorin Enhances Endometrial Receptivity through Leukemia Inhibitory Factor. <i>Biomolecules</i> , 2021, 11, 439.	4.0	14
68	6-sialyllactose ameliorates dihydrotestosterone-induced benign prostatic hyperplasia through suppressing VEGF-mediated angiogenesis. <i>BMB Reports</i> , 2019, 52, 560-565.	2.4	13
69	Triple Inhibitory Activity of <i>Cliona celata</i> Against TNF- $\alpha$ -Induced Matrix Metalloproteinase-9 Production Via Downregulated NF- $\kappa$ B and AP-1, Enzyme Activity, and Migration Potential. <i>Inflammation</i> , 2012, 35, 736-745.	3.8	12
70	4-O-Carboxymethylascochlorin Inhibits Expression Levels of on Inflammation-Related Cytokines and Matrix Metalloproteinase-9 Through NF- $\kappa$ B/MAPK/TLR4 Signaling Pathway in LPS-Activated RAW264.7 Cells. <i>Frontiers in Pharmacology</i> , 2019, 10, 304.	3.5	12
71	6-sialyllactose targets cell surface protein, SIGLEC-3, and induces megakaryocyte differentiation and apoptosis by lipid raft-dependent endocytosis. <i>Glycoconjugate Journal</i> , 2020, 37, 187-200.	2.7	12
72	Molecular cloning and functional expression of the rfaE gene required for lipopolysaccharide biosynthesis in <i>Salmonella typhimurium</i> . <i>Glycoconjugate Journal</i> , 2001, 18, 779-787.	2.7	11

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73	Monosialyl Ganglioside GM3 Decreases Apolipoprotein B-100 Secretion in Liver Cells. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2168-2181.	2.6	11
74	Disialyl GD2 ganglioside suppresses ICAM-1-mediated invasiveness in human breast cancer MDA-MB231 cells. <i>International Journal of Biological Sciences</i> , 2017, 13, 265-275.	6.4	11
75	<i>Caesalpinia Asappan</i> induces apoptotic cell death in ectopic endometrial 12Z cells through suppressing pyruvate dehydrogenase kinase 1 expression. <i>Experimental and Therapeutic Medicine</i> , 2021, 21, 357.	1.8	11
76	Jellyfish extract induces apoptotic cell death through the p38 pathway and cell cycle arrest in chronic myelogenous leukemia K562 cells. <i>PeerJ</i> , 2017, 5, e2895.	2.0	11
77	Ganglioside GM3 is required for caffeic acid phenethyl ester-induced megakaryocytic differentiation of human chronic myelogenous leukemia K562 cells. <i>Biochemistry and Cell Biology</i> , 2014, 92, 243-249.	2.0	10
78	Hyperexpression of N-acetylglucosaminyltransferase-III in liver tissues of transgenic mice causes fatty body and obesity through severe accumulation of Apo A-I and Apo B. <i>Archives of Biochemistry and Biophysics</i> , 2004, 426, 18-31.	3.0	9
79	Regulation of matrix metalloproteinase-9 expression between gingival fibroblast cells from old and young rats. <i>Biochemical and Biophysical Research Communications</i> , 2009, 378, 152-156.	2.1	9
80	Enhancement of Endometrial Receptivity by <i>Cnidium officinale</i> through Expressing LIF and Integrins. <i>Evidence-based Complementary and Alternative Medicine</i> , 2019, 2019, 1-9.	1.2	9
81	Induction of GD3/1±1-adrenergic receptor/transglutaminase 2-mediated erythroid differentiation in chronic myelogenous leukemic K562 cells. <i>Oncotarget</i> , 2017, 8, 72205-72219.	1.8	9
82	6â€²-Sialyllactose Ameliorates in Vivo and in Vitro Benign Prostatic Hyperplasia by Regulating the E2F1/pRbâ€²AR Pathway. <i>Nutrients</i> , 2019, 11, 2203.	4.1	8
83	Mealworm Oil (MWO) Enhances Wound Healing Potential through the Activation of Fibroblast and Endothelial Cells. <i>Molecules</i> , 2021, 26, 779.	3.8	8
84	Expression and Efficient One-Step Chromatographic Purification of a Soluble Antagonist for Human Leukemia Inhibitory Factor Receptor in <i>Escherichia coli</i> . <i>Journal of Microbiology and Biotechnology</i> , 2015, 25, 1307-1314.	2.1	8
85	Citreorosein Inhibits Production of Proinflammatory Cytokines by Blocking Mitogen Activated Protein Kinases, Nuclear Factor-Î²B and Activator Protein-1 Activation in Mouse Bone Marrow-Derived Mast Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 938-945.	1.4	7
86	<i>Sorbus commixta</i> water extract induces apoptotic cell death via a ROSâ€²dependent pathway. <i>Oncology Letters</i> , 2018, 16, 4193-4200.	1.8	7
87	6â€²-Sialylgalactose inhibits vascular endothelial growth factor receptor 2-mediated angiogenesis. <i>Experimental and Molecular Medicine</i> , 2019, 51, 1-13.	7.7	7
88	Abiotic stress of ambient cold temperature regulates the host receptivity to pathogens by cell surfaced sialic acids. <i>Biochemical and Biophysical Research Communications</i> , 2016, 476, 159-166.	2.1	6
89	Effect of <i>Sorbus commixta</i> on the invasion and migration of human hepatocellular carcinoma Hep3B cells. <i>International Journal of Molecular Medicine</i> , 2017, 40, 483-490.	4.0	6
90	Molecular mechanisms involved in transcriptional activation of the human Sia-1±2,3-Gal-1±2,4-GlcNAc-R:1±2,8-sialyltransferase (hST8Sia III) gene induced by KCl in human glioblastoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 1057-1064.	2.1	5

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91	Housekeeping promoter 5â€™ <sup>TM</sup> pcmah-2 of pig CMP-N-acetylneuraminic acid hydroxylase gene for NeuGc expression. Glycoconjugate Journal, 2016, 33, 779-788.	2.7	5
92	Determination of UDP-N-acetylglucosamine:âˆ–D-mannoside-1,4-N-acetylglucosaminyltransferase-III in patients sera with chronic hepatitis and liver cirrhosis using a monoclonal antibody. Glycoconjugate Journal, 2002, 19, 415-421.	2.7	4
93	Cloning and expression of superoxide dismutase from Mycobacterium bovis BCG. Protein Expression and Purification, 2006, 47, 52-59.	1.3	4
94	Intestine specific regulation of pig cytidine-5â€™ <sup>2</sup> -monophospho-N-acetylneuraminic acid hydroxylase gene for N-glycolylneuraminic acid biosynthesis. Scientific Reports, 2019, 9, 4292.	3.3	4
95	n-Butyl-âˆ–D-fructofuranoside Isolated from Ulmus davidiana Enhances Nrf2 Activity Through Activation of JNK. Current Pharmaceutical Biotechnology, 2016, 17, 1181-1188.	1.6	4
96	Benzoic Acid Enhances Embryo Implantation through LIF-Dependent Expression of Integrin $\alpha_1\beta_1$ and $\alpha_4\beta_1$ . Journal of Microbiology and Biotechnology, 2017, 27, 668-677.	2.1	4
97	Macrophage Stimulated by Low Ambient Temperature Hasten Tumor Growth via Glutamine Production. Biomedicines, 2020, 8, 381.	3.2	3
98	Remodeling of the major mouse xenoantigen, Gal $\alpha$ 1-3Gal $\beta$ 1-4GlcNAc-R, by N-acetylglucosaminyltransferase-III. Molecules and Cells, 2003, 16, 343-53.	2.6	3
99	p90RSK2 Is Essential for FLT3-ITD-, but Dispensable for BCR-ABL-Induced Myeloid Leukemia. Blood, 2010, 116, 1716-1716.	1.4	0