Young-Chae Chang

List of Publications by Year
in descending order

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80 papers	2,629 citations	201575 27 h-index	206029 48 g-index
81 all docs	81 docs citations	81 times ranked	3435 citing authors

#	Article	IF	Citations
1	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. FASEB Journal, 2004, 18, 1670-1681.	0.2	407
2	Ascochlorin Inhibits Matrix Metalloproteinase-9 Expression by Suppressing Activator Protein-1-mediated Gene Expression through the ERK1/2 Signaling Pathway. Journal of Biological Chemistry, 2005, 280, 25202-25209.	1.6	119
3	Ascofuranone suppresses PMA-mediated matrix metalloproteinase-9 gene activation through the Ras/Raf/MEK/ERK- and Ap1-dependent mechanisms. Carcinogenesis, 2006, 28, 1104-1110.	1.3	112
4	Silibinin suppresses PMA-induced MMP-9 expression by blocking the AP-1 activation via MAPK signaling pathways in MCF-7 human breast carcinoma cells. Biochemical and Biophysical Research Communications, 2007, 354, 165-171.	1.0	109
5	Melittin suppresses EGF-induced cell motility and invasion by inhibiting PI3K/Akt/mTOR signaling pathway in breast cancer cells. Food and Chemical Toxicology, 2014, 68, 218-225.	1.8	98
6	Melittin Suppresses PMA-Induced Tumor Cell Invasion by Inhibiting NF-ÎºB and AP-1-Dependent MMP-9 Expression. Molecules and Cells, 2010, 29, 209-216.	1.0	96
7	The Protective Effects of Melittin on Propionibacterium acnes â€“Induced Inflammatory Responses In Vitro and In Vivo. Journal of Investigative Dermatology, 2014, 134, 1922-1930.	0.3	87
8	Ascochlorin Enhances the Sensitivity of Doxorubicin Leading to the Reversal of Epithelial-to-Mesenchymal Transition in Hepatocellular Carcinoma. Molecular Cancer Therapeutics, 2016, 15, 2966-2976.	1.9	86
9	Antiâ€Inflammatory Effect of Ascochlorin in LPSâ€Stimulated RAW 264.7 Macrophage Cells Is Accompanied With the Downâ€Regulation of iNOS, COXâ€2 and Proinflammatory Cytokines Through NFâ€ÎºB, ERK1/2, and p38 Signaling Pathway. Journal of Cellular Biochemistry, 2016, 117, 978-987.	1.2	83
10	Delphinidin inhibits angiogenesis through the suppression of HIF-1Î± and VEGF expression in A549 lung cancer cells. Oncology Reports, 2017, 37, 777-784.	1.2	65
11	Cooperation of E2F-p130 and Sp1-pRb Complexes in Repression of the Chinese Hamster dhfr Gene. Molecular and Cellular Biology, 2001, 21, 1121-1131.	1.1	63
12	p53-Independent Induction of G1 Arrest and p21WAF1/CIP1 Expression by Ascofuranone, an Isoprenoid Antibiotic, through Downregulation of c-Myc. Molecular Cancer Therapeutics, 2010, 9, 2102-2113.	1.9	63
13	Melittin Suppresses HIF-1Î±/VEGF Expression through Inhibition of ERK and mTOR/p70S6K Pathway in Human Cervical Carcinoma Cells. PLoS ONE, 2013, 8, e69380.	1.1	55
14	Bee venom suppresses PMA-mediated MMP-9 gene activation via JNK/p38 and NF-ÎºB-dependent mechanisms. Journal of Ethnopharmacology, 2010, 127, 662-668.	2.0	48
15	Isothiocyanates suppress the invasion and metastasis of tumors by targeting FAK/MMP-9 activity. Oncotarget, 2017, 8, 63949-63962.	0.8	48
16	Ascofuranone inhibits lipopolysaccharideâ€induced inflammatory response via NF-kappaB and AP-1, p-ERK, TNF-Î±, IL-6 and IL-1Î² in RAW 264.7 macrophages. PLoS ONE, 2017, 12, e0171322.	1.1	42
17	Effects of bee venom against Propionibacterium acnes-induced inflammation in human keratinocytes and monocytes. International Journal of Molecular Medicine, 2015, 35, 1651-1656.	1.8	39
18	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. Journal of Ethnopharmacology, 2017, 195, 309-317.	2.0	35

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19	Ascochlorin Suppresses MMPâ€2â€Mediated Migration and Invasion by Targeting FAK and JAKâ€STAT Signaling Cascades. Journal of Cellular Biochemistry, 2018, 119, 300-313.	1.2	34
20	Proteome Analysis of Responses to Ascochlorin in a Human Osteosarcoma Cell Line by 2-D Gel Electrophoresis and MALDI-TOF MS. Journal of Proteome Research, 2006, 5, 2620-2631.	1.8	33
21	The Ganglioside GM3 Is Associated with Cisplatin-Induced Apoptosis in Human Colon Cancer Cells. PLoS ONE, 2014, 9, e92786.	1.1	33
22	Ascochlorin suppresses oxLDL-induced MMP-9 expression by inhibiting the MEK/ERK signaling pathway in human THP-1 macrophages. Journal of Cellular Biochemistry, 2007, 102, 506-514.	1.2	32
23	Melittin has a chondroprotective effect by inhibiting MMP-1 and MMP-8 expressions via blocking NF-ÎºB and AP-1 signaling pathway in chondrocytes. International Immunopharmacology, 2015, 25, 400-405.	1.7	32
24	Pimaric acid from Aralia cordata has an inhibitory effect on TNF-Î±-induced MMP-9 production and HASMC migration via down-regulated NF-ÎºB and AP-1. Chemico-Biological Interactions, 2012, 199, 112-119.	1.7	31
25	Ganglioside GM3 participates in the TGF-Î²1-induced epithelialâ€“mesenchymal transition of human lens epithelial cells. Biochemical Journal, 2013, 449, 241-251.	1.7	31
26	Ganglioside GM3 suppresses lipopolysaccharideâ€induced inflammatory responses in rAW 264.7 macrophage cells through NFâ€ÎºB, APâ€1, and MAPKs signaling. Journal of Cellular Biochemistry, 2018, 119, 1173-1182.	1.2	31
27	Ascofuranone suppresses EGF-induced HIF-1Î± protein synthesis by inhibition of the Akt/mTOR/p70S6K pathway in MDA-MB-231 breast cancer cells. Toxicology and Applied Pharmacology, 2013, 273, 542-550.	1.3	30
28	4-O-Carboxymethyl Ascochlorin Causes ER Stress and Induced Autophagy in Human Hepatocellular Carcinoma Cells. Journal of Biological Chemistry, 2012, 287, 15661-15671.	1.6	28
29	Ascochlorin inhibits growth factorâ€induced HIFâ€1Î± activation and tumorâ€angiogenesis through the suppression of EGFR/ERK/p70S6K signaling pathway in human cervical carcinoma cells. Journal of Cellular Biochemistry, 2012, 113, 1302-1313.	1.2	26
30	Ascochlorin activates p53 in a manner distinct from DNA damaging agents. International Journal of Cancer, 2009, 124, 2797-2803.	2.3	25
31	Sp1-decoy oligodeoxynucleotide inhibits high glucose-induced mesangial cell proliferation. Biochemical and Biophysical Research Communications, 2004, 319, 550-555.	1.0	24
32	Melittin has an inhibitory effect on TNF-Î±-induced migration of human aortic smooth muscle cells by blocking the MMP-9 expression. Food and Chemical Toxicology, 2012, 50, 3996-4002.	1.8	24
33	The ascochlorin derivative, AS-6, inhibits TNF-Î±-induced adhesion molecule and chemokine expression in rat vascular smooth muscle cells. Life Sciences, 2006, 80, 120-126.	2.0	23
34	4-O-methylascochlorin, methylated derivative of ascochlorin, stabilizes HIF-1Î± via AMPK activation. Biochemical and Biophysical Research Communications, 2011, 406, 353-358.	1.0	23
35	Inhibitory effects of novel E2F decoy oligodeoxynucleotides on mesangial cell proliferation by coexpression of E2F/DP. Biochemical and Biophysical Research Communications, 2003, 308, 689-697.	1.0	21
36	Suppression of c-Myc induces apoptosis via an AMPK/mTOR-dependent pathway by 4-O-methyl-ascochlorin in leukemia cells. Apoptosis: an International Journal on Programmed Cell Death, 2016, 21, 657-668.	2.2	21

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37	Protective effects of melittin on tumor necrosis factor-Î± induced hepatic damage through suppression of apoptotic pathway and nuclear factor-kappa B activation. Experimental Biology and Medicine, 2014, 239, 1705-1714.	1.1	20
38	Upregulation of <scp>AMPK</scp> by 4â€Oâ€methylascochlorin promotes autophagy via the <scp>HIF</scp>â€1Î± expression. Journal of Cellular and Molecular Medicine, 2018, 22, 6345-6356.	1.6	20
39	Selective cytotoxicity of ascochlorin in ER-negative human breast cancer cell lines. Biochemical and Biophysical Research Communications, 2005, 329, 46-50.	1.0	19
40	Aberrant Expression of Fra-1 in Estrogen Receptor-negative Breast Cancers and Suppression of their Propagation In Vivo by Ascochlorin, an Antibiotic that Inhibits Cellular Activator Protein-1 Activity. Journal of Antibiotics, 2007, 60, 682-689.	1.0	19
41	Melittin Inhibits TGF-Î²-Induced Pro-Fibrotic Gene Expression Through the Suppression of the TGFÎ²RII-Smad, ERK1/2 and JNK-Mediated Signaling Pathway. The American Journal of Chinese Medicine, 2014, 42, 1139-1152.	1.5	19
42	Suppression of PAIâ€1 expression through inhibition of the EGFRâ€mediated signaling cascade in rat kidney fibroblast by ascofuranone. Journal of Cellular Biochemistry, 2009, 107, 335-344.	1.2	17
43	Exogenous and Endogeneous Disialosyl Ganglioside GD1b Induces Apoptosis of MCF-7 Human Breast Cancer Cells. International Journal of Molecular Sciences, 2016, 17, 652.	1.8	17
44	A Mercaptoacetamide-Based Class II Histone Deacetylase Inhibitor Suppresses Cell Migration and Invasion in Monomorphic Malignant Human Glioma Cells by Inhibiting FAK/STAT3 Signaling. Journal of Cellular Biochemistry, 2017, 118, 4672-4685.	1.2	17
45	Rg3-enriched red ginseng extract promotes lung cancer cell apoptosis and mitophagy by ROS production. Journal of Ginseng Research, 2022, 46, 138-146.	3.0	17
46	Ascofuranone prevents ER stress-induced insulin resistance via activation of AMP-activated protein kinase in L6 myotube cells. Biochemical and Biophysical Research Communications, 2010, 396, 967-972.	1.0	16
47	Extracellular matrix protein reelin regulate dendritic spine density through CaMKIIÎ². Neuroscience Letters, 2015, 599, 97-101.	1.0	16
48	Bee Venom Suppresses EGF-Induced Epithelial-Mesenchymal Transition and Tumor Invasion in Lung Cancer Cells. The American Journal of Chinese Medicine, 2019, 47, 1869-1883.	1.5	15
49	Esculentoside B inhibits inflammatory response through JNK and downstream NF-ÎºB signaling pathway in LPS-triggered murine macrophage RAW 264.7 cells. International Immunopharmacology, 2019, 68, 156-163.	1.7	15
50	Ascochlorin, an isoprenoid antibiotic, induces G1 arrest via downregulation of c-Myc in a p53-independent manner. Biochemical and Biophysical Research Communications, 2010, 398, 68-73.	1.0	14
51	Induction of Apoptosis and Antitumor Activity of Eel Skin Mucus, Containing Lactose-Binding Molecules, on Human Leukemic K562 Cells. Marine Drugs, 2015, 13, 3936-3949.	2.2	14
52	Suppression of câ€Myc enhances p21^{WAF1/CIP1}â€mediated G1 cell cycle arrest through the modulation of ERK phosphorylation by ascochlorin. Journal of Cellular Biochemistry, 2018, 119, 2036-2047.	1.2	14
53	Ascochlorin induces caspase-independent necroptosis in LPS-stimulated RAW 264.7 macrophages. Journal of Ethnopharmacology, 2019, 239, 111898.	2.0	14
54	Avenanthramide C Suppresses Matrix Metalloproteinase-9 Expression and Migration Through the MAPK/NF- ÎºB Signaling Pathway in TNF-Î±-Activated HASMC Cells. Frontiers in Pharmacology, 2021, 12, 621854.	1.6	14

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55	4-O-Carboxymethylascochlorin Inhibits Expression Levels of on Inflammation-Related Cytokines and Matrix Metalloproteinase-9 Through NFâ€“Î¹B/MAPK/TLR4 Signaling Pathway in LPS-Activated RAW264.7 Cells. Frontiers in Pharmacology, 2019, 10, 304.	1.6	12
56	4-O-methylascochlorin suppresses differentiation of 3T3-L1 preadipocytes by inhibiting PPARÎ³ expression through regulation of AMPK/mTOR signaling pathways. Archives of Biochemistry and Biophysics, 2015, 583, 79-86.	1.4	11
57	Jellyfish extract induces apoptotic cell death through the p38 pathway and cell cycle arrest in chronic myelogenous leukemia K562 cells. PeerJ, 2017, 5, e2895.	0.9	11
58	Ascofuranone stimulates expression of adiponectin and peroxisome proliferator activated receptor through the modulation of mitogen activated protein kinase family members in 3T3-L1, murine pre-adipocyte cell line. Biochemical and Biophysical Research Communications, 2012, 422, 423-428.	1.0	10
59	4-O-methylascochlorin attenuates inflammatory responses induced by lipopolysaccharide in RAW 264.7 macrophages. International Immunopharmacology, 2021, 90, 107184.	1.7	10
60	Suppression of mesangial cell proliferation and extracellular matrix production in streptozotocin-induced diabetic rats by Sp1 decoy oligodeoxynucleotide in vitro and in vivo. Journal of Cellular Biochemistry, 2008, 103, 663-674.	1.2	9
61	4-O-Methylascochlorin inhibits the prolyl hydroxylation of hypoxia-inducible factor-1Î±, which is attenuated by ascorbate. Journal of Antibiotics, 2019, 72, 271-281.	1.0	9
62	Comparative proteome analysis of TGFâ€Î²1â€induced fibrosis processes in normal rat kidney interstitial fibroblast cells in response to ascofuranone. Proteomics, 2009, 9, 4445-4456.	1.3	8
63	Ethylacetate fraction from Korean seaside starfish, Asterias amurensis, has an inhibitory effect on MMP-9 activity and expression and on migration behavior of TNF-Î± induced human aortic smooth muscle cells. Toxicology in Vitro, 2011, 25, 767-773.	1.1	8
64	Ascochlorin suppresses TGF-Î²1-induced PAI-1 expression through the inhibition of phospho-EGFR in rat kidney fibroblast cells. Molecular Biology Reports, 2012, 39, 4597-4603.	1.0	8
65	Comparative proteome analysis of Tumor necrosis factor Î±-stimulated human Vascular Smooth Muscle Cells in response to melittin. Proteome Science, 2013, 11, 20.	0.7	8
66	4â€Oâ€methylascochlorin activates autophagy by activating AMPK and suppressing câ€Myc in glioblastoma. Journal of Biochemical and Molecular Toxicology, 2020, 34, e22552.	1.4	8
67	Melittin-loaded Iron Oxide Nanoparticles Prevent Intracranial Arterial Dolichoectasia Development through Inhibition of Macrophage-mediated Inflammation. International Journal of Biological Sciences, 2021, 17, 3818-3836.	2.6	7
68	Anti-Fibrotic Effects by Moringa Root Extract in Rat Kidney Fibroblast. Journal of Life Science, 2012, 22, 1371-1377.	0.2	7
69	Anti-inflammatory activity of hexane extracts from bones and internal organs of Anguilla japonica suppresses cyclooxygenase-2-dependent prostaglandin D2 generation in mast cells and anaphylaxis in mice. Food and Chemical Toxicology, 2013, 57, 307-313.	1.8	6
70	MAC inhibits c-Myc and induces autophagy by downregulation of CIP2A in leukemia cells. Molecular and Cellular Toxicology, 2018, 14, 417-424.	0.8	6
71	4â€Oâ€carboxymethylascochlorin protected against microglialâ€mediated neurotoxicity in SHâ€SY5Y and BV2 cocultured cells from LPSâ€“induced neuroinflammation and death by inhibiting MAPK, NFâ€Î¹B, and Akt pathways. Journal of Cellular Biochemistry, 2019, 120, 1742-1753.	1.2	6
72	Ascofuranone suppresses invasion and F-actin cytoskeleton organization in cancer cells by inhibiting the mTOR complex 1 signaling pathway. Cellular Oncology (Dordrecht), 2020, 43, 793-805.	2.1	6

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73	Indole-6-carboxaldehyde prevents oxidative stress-induced mitochondrial dysfunction, DNA damage and apoptosis in C2C12 skeletal myoblasts by regulating the ROS-AMPK signaling pathway. Molecular and Cellular Toxicology, 2020, 16, 455-467.	0.8	5
74	Effect of fermented oyster extract on growth promotion in Sprague–Dawley rats. Integrative Medicine Research, 2020, 9, 100412.	0.7	5
75	Delphinidin Suppresses Angiogenesis via the Inhibition of HIF-1α and STAT3 Expressions in PC3M Cells. Korean Journal of Food Science and Technology, 2016, 48, 66-71.	0.0	3
76	Ascofuranone inhibits epidermal growth factor-induced cell migration by blocking epithelial-mesenchymal transition in lung cancer cells. European Journal of Pharmacology, 2020, 880, 173199.	1.7	3
77	4-O-methylascochlorin-stimulated HIF-1α expression induces the epithelial mesenchymal transition and cell survival in breast cancer cells. Toxicology in Vitro, 2022, 81, 105342.	1.1	3
78	Delayed Growth Suppression and Radioresistance Induced by Long-Term Continuous Gamma Irradiation. Radiation Research, 2017, 188, 181-190.	0.7	2
79	4-O-methylascochlorin stabilizes hypoxia-inducible factor-1 in a manner different from hydroxylase inhibition by iron chelating or substrate competition. Bioscience, Biotechnology and Biochemistry, 2019, 83, 2244-2248.	0.6	1
80	Therapeutic Possibility of Ascofuranone for Autosomal Dominant Polycystic Kidney Disease – Response. Molecular Cancer Therapeutics, 2010, 9, 3101-3101.	1.9	0