

Seung-Taek Lee

List of Publications by Year in descending order

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85
papers

3,847
citations

147801

31
h-index

133252

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86
all docs

86
docs citations

86
times ranked

4506
citing authors

#	ARTICLE	IF	CITATIONS
1	A gene for the mouse pink-eyed dilution locus and for human type II oculocutaneous albinism. <i>Nature</i> , 1993, 361, 72-76.	27.8	409
2	Endostatin Blocks Vascular Endothelial Growth Factor-mediated Signaling via Direct Interaction with KDR/Flk-1. <i>Journal of Biological Chemistry</i> , 2002, 277, 27872-27879.	3.4	367
3	Mutations of the P Gene in Oculocutaneous Albinism, Ocular Albinism, and Prader-Willi Syndrome Plus Albinism. <i>New England Journal of Medicine</i> , 1994, 330, 529-534.	27.0	221
4	Proteolytic Cleavage of Extracellular Secreted β -Synuclein via Matrix Metalloproteinases. <i>Journal of Biological Chemistry</i> , 2005, 280, 25216-25224.	3.4	209
5	Organization and sequence of the human P gene and identification of a new family of transport proteins. <i>Genomics</i> , 1995, 26, 354-363.	2.9	200
6	Identification of S100A8 and S100A9 as Serological Markers for Colorectal Cancer. <i>Journal of Proteome Research</i> , 2009, 8, 1368-1379.	3.7	129
7	Endostatin binds to the catalytic domain of matrix metalloproteinase-2. <i>FEBS Letters</i> , 2002, 519, 147-152.	2.8	94
8	Protein tyrosine kinase 7 has a conserved role in Wnt/ β -catenin canonical signalling. <i>EMBO Reports</i> , 2011, 12, 43-49.	4.5	93
9	Hypopigmentation in the Prader-Willi syndrome correlates with P gene deletion but not with haplotype of the hemizygous P allele. , 1997, 71, 57-62.		85
10	A proteomic approach to identify substrates of matrix metalloproteinase-14 in human plasma. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1702, 79-87.	2.3	82
11	The cell polarity PTK7 receptor acts as a modulator of the chemotherapeutic response in acute myeloid leukemia and impairs clinical outcome. <i>Blood</i> , 2010, 116, 2315-2323.	1.4	79
12	An absolute role of the PKC-dependent NF- κ B activation for induction of MMP-9 in hepatocellular carcinoma cells. <i>Biochemical and Biophysical Research Communications</i> , 2003, 305, 428-433.	2.1	73
13	Soluble PTK7 inhibits tube formation, migration, and invasion of endothelial cells and angiogenesis. <i>Biochemical and Biophysical Research Communications</i> , 2008, 371, 793-798.	2.1	70
14	Syndecan-2 Functions as a Docking Receptor for Pro-matrix Metalloproteinase-7 in Human Colon Cancer Cells. <i>Journal of Biological Chemistry</i> , 2009, 284, 35692-35701.	3.4	68
15	Analysis of tissue inhibitor of metalloproteinases-2 effect on pro-matrix metalloproteinase-2 activation by membrane-type 1 matrix metalloproteinase using baculovirus/insect-cell expression system. <i>Biochemical Journal</i> , 2000, 345, 511-519.	3.7	66
16	TIMP-1 inhibits apoptosis in breast carcinoma cells via a pathway involving pertussis toxin-sensitive G protein and c-Src. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 1196-1201.	2.1	65
17	A YAC Contig Spanning a Cluster of Human Type III Receptor Protein Tyrosine Kinase Genes (PDGFRA-KIT-KDR) in Chromosome Segment 4q12. <i>Genomics</i> , 1994, 22, 431-436.	2.9	59
18	The Fourth Immunoglobulin-like Loop in the Extracellular Domain of FLT-1, a VEGF Receptor, Includes a Major Heparin-Binding Site. <i>Biochemical and Biophysical Research Communications</i> , 1999, 264, 730-734.	2.1	59

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19	The Cytosolic Domain of Protein-tyrosine Kinase 7 (PTK7), Generated from Sequential Cleavage by a Disintegrin and Metalloprotease 17 (ADAM17) and β -Secretase, Enhances Cell Proliferation and Migration in Colon Cancer Cells. <i>Journal of Biological Chemistry</i> , 2012, 287, 25001-25009.	3.4	56
20	Oncogenic role of protein tyrosine kinase 7 in esophageal squamous cell carcinoma. <i>Cancer Science</i> , 2013, 104, 1120-1126.	3.9	54
21	Release of heat shock protein 70 (Hsp70) and the effects of extracellular Hsp70 on matrix metalloproteinase-9 expression in human monocytic U937 cells. <i>Experimental and Molecular Medicine</i> , 2006, 38, 364-374.	7.7	50
22	Profiling of differentially expressed proteins in stage IV Colorectal cancers with good and poor outcomes. <i>Journal of Proteomics</i> , 2012, 75, 2983-2997.	2.4	46
23	Apolipoprotein C-II is a novel substrate for matrix metalloproteinases. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 47-54.	2.1	44
24	Cloning and characterization of the full-length mouse Ptk7 cDNA encoding a defective receptor protein tyrosine kinase. <i>Gene</i> , 2004, 328, 75-84.	2.2	40
25	Characterization of plasma gelsolin as a substrate for matrix metalloproteinases. <i>Proteomics</i> , 2006, 6, 1192-1199.	2.2	40
26	Oncogenic Functions of PTK6 are Enhanced by Its Targeting to Plasma Membrane But Abolished by Its Targeting to Nucleus. <i>Journal of Biochemistry</i> , 2009, 146, 133-139.	1.7	38
27	Novel mutations of the P gene in type II oculocutaneous albinism (OCA2). <i>Human Mutation</i> , 1997, 10, 175-177.	2.5	37
28	Alteration of collapsin response mediator protein-2 expression in focal ischemic rat brain. <i>NeuroReport</i> , 2005, 16, 1647-1653.	1.2	36
29	Syndecan-2 cytoplasmic domain up-regulates matrix metalloproteinase-7 expression via the protein kinase C β -mediated FAK/ERK signaling pathway in colon cancer. <i>Journal of Biological Chemistry</i> , 2017, 292, 16321-16332.	3.4	36
30	Discovery of Melanotransferrin as a Serological Marker of Colorectal Cancer by Secretome Analysis and Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2014, 13, 4919-4931.	3.7	35
31	Protein tyrosine kinase 7 plays a tumor suppressor role by inhibiting ERK and AKT phosphorylation in lung cancer. <i>Oncology Reports</i> , 2014, 31, 2708-2712.	2.6	32
32	Catalytically defective receptor protein tyrosine kinase PTK7 enhances invasive phenotype by inducing MMP-9 through activation of AP-1 and NF- κ B in esophageal squamous cell carcinoma cells. <i>Oncotarget</i> , 2016, 7, 73242-73256.	1.8	32
33	Organization of the human PTK7 gene encoding a receptor protein tyrosine kinase-like molecule and alternative splicing of its mRNA. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002, 1579, 153-163.	2.4	31
34	PTK6 Inhibits Down-regulation of EGF Receptor through Phosphorylation of ARAP1. <i>Journal of Biological Chemistry</i> , 2010, 285, 26013-26021.	3.4	31
35	An Intramolecular Interaction between SH2-Kinase Linker and Kinase Domain Is Essential for the Catalytic Activity of Protein-tyrosine Kinase-6. <i>Journal of Biological Chemistry</i> , 2005, 280, 28973-28980.	3.4	30
36	Effects of Tenascin C on the Integrity of Extracellular Matrix and Skin Aging. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8693.	4.1	30

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37	Galangin and Kaempferol Suppress Phorbol-12-Myristate-13-Acetate-Induced Matrix Metalloproteinase-9 Expression in Human Fibrosarcoma HT-1080 Cells. <i>Molecules and Cells</i> , 2015, 38, 151-155.	2.6	27
38	Fisetin Inhibits Matrix Metalloproteinases and Reduces Tumor Cell Invasiveness and Endothelial Cell Tube Formation. <i>Nutrition and Cancer</i> , 2013, 65, 1192-1199.	2.0	26
39	Identification of ganglioside GM2 activator playing a role in cancer cell migration through proteomic analysis of breast cancer secretomes. <i>Cancer Science</i> , 2016, 107, 828-835.	3.9	26
40	Hsp90 rescues PTK6 from proteasomal degradation in breast cancer cells. <i>Biochemical Journal</i> , 2012, 447, 313-320.	3.7	25
41	Leptin regulates the pro-inflammatory response in human epidermal keratinocytes. <i>Archives of Dermatological Research</i> , 2018, 310, 351-362.	1.9	25
42	Analysis of tissue inhibitor of metalloproteinases-2 effect on pro-matrix metalloproteinase-2 activation by membrane-type 1 matrix metalloproteinase using baculovirus/insect-cell expression system. <i>Biochemical Journal</i> , 2000, 345, 511.	3.7	24
43	Solution Structure and Backbone Dynamics of the Non-receptor Protein-tyrosine Kinase-6 Src Homology 2 Domain. <i>Journal of Biological Chemistry</i> , 2004, 279, 29700-29708.	3.4	23
44	Cleavage and functional loss of human apolipoprotein E by digestion of matrix metalloproteinase-14. <i>Proteomics</i> , 2008, 8, 2926-2935.	2.2	23
45	Skullcapflavone II Inhibits Degradation of Type I Collagen by Suppressing MMP-1 Transcription in Human Skin Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2734.	4.1	23
46	Rapid analysis of matrix metalloproteinase-3 activity by gelatin arrays using a spectral surface plasmon resonance biosensor. <i>Analyst</i> , 2010, 135, 1050.	3.5	22
47	Cystathionine metabolic enzymes play a role in the inflammation resolution of human keratinocytes in response to sub-cytotoxic formaldehyde exposure. <i>Toxicology and Applied Pharmacology</i> , 2016, 310, 185-194.	2.8	22
48	Growth-stimulatory activity of TIMP-2 is mediated through c-Src activation followed by activation of FAK, PI3-kinase/AKT, and ERK1/2 independent of MMP inhibition in lung adenocarcinoma cells. <i>Oncotarget</i> , 2015, 6, 42905-42922.	1.8	22
49	Apolipoprotein A-IV is a novel substrate for matrix metalloproteinases. <i>Journal of Biochemistry</i> , 2012, 151, 291-298.	1.7	21
50	Processing of syndecan-2 by matrix metalloproteinase-14 and effect of its cleavage on VEGF-induced tube formation of HUVECs. <i>Biochemical Journal</i> , 2017, 474, 3719-3732.	3.7	21
51	Roles of Arrest-Defective Protein 1225 and Hypoxia-Inducible Factor 1 α in Tumor Growth and Metastasis. <i>Journal of the National Cancer Institute</i> , 2010, 102, 426-442.	6.3	20
52	Biphasic effect of PTK7 on KDR activity in endothelial cells and angiogenesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2251-2260.	4.1	19
53	PTK6 Localized at the Plasma Membrane Promotes Cell Proliferation and Migration Through Phosphorylation of Eps8. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2887-2895.	2.6	19
54	Integrative analysis for the discovery of lung cancer serological markers and validation by MRM-MS. <i>PLoS ONE</i> , 2017, 12, e0183896.	2.5	19

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55	Refolding of the catalytic and hinge domains of human MT1-mMP expressed in Escherichia coli and its characterization. <i>Molecules and Cells</i> , 2002, 13, 118-24.	2.6	19
56	N-Hydroxy-2-(naphthalene-2-ylsulfanyl)-acetamide, a novel hydroxamic acid-based inhibitor of aminopeptidase N and its anti-angiogenic activity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 181-183.	2.2	18
57	Molecular dissection of the interaction between the SH3 domain and the SH2-Kinase Linker region in PTK6. <i>Biochemical and Biophysical Research Communications</i> , 2007, 362, 829-834.	2.1	17
58	The Presence of Outer Arm Fucose Residues on the N-Glycans of Tissue Inhibitor of Metalloproteinases-1 Reduces Its Activity. <i>Journal of Proteome Research</i> , 2013, 12, 3547-3560.	3.7	17
59	Biphasic regulation of tumorigenesis by PTK7 expression level in esophageal squamous cell carcinoma. <i>Scientific Reports</i> , 2018, 8, 8519.	3.3	16
60	Analysis of apolipoprotein A-I as a substrate for matrix metalloproteinase-14. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 58-63.	2.1	14
61	SOD3 Suppresses the Expression of MMP-1 and Increases the Integrity of Extracellular Matrix in Fibroblasts. <i>Antioxidants</i> , 2022, 11, 928.	5.1	14
62	Genetic Variation in the Renin-Angiotensin System and Response to Endurance Training. <i>Medical Principles and Practice</i> , 2007, 16, 142-146.	2.4	13
63	CagA Phosphorylation-Dependent MMP-9 Expression in Gastric Epithelial Cells. <i>Helicobacter</i> , 2011, 16, 276-283.	3.5	13
64	Discovery of (E)-5-(benzylideneamino)-1H-benzo[d]imidazol-2(3H)-one derivatives as inhibitors for PTK6. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4659-4663.	2.2	13
65	The catalytically defective receptor protein tyrosine kinase EphA10 promotes tumorigenesis in pancreatic cancer cells. <i>Cancer Science</i> , 2020, 111, 3292-3302.	3.9	13
66	PTK6 promotes degradation of c-Cbl through PTK6-mediated phosphorylation. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 734-739.	2.1	12
67	The associated pyrazolopyrimidines PP1 and PP2 inhibit protein tyrosine kinase 6 activity and suppress breast cancer cell proliferation. <i>Oncology Letters</i> , 2017, 13, 1463-1469.	1.8	12
68	Catalytically inactive receptor tyrosine kinase PTK7 activates FGFR1 independent of FGF. <i>FASEB Journal</i> , 2019, 33, 12960-12971.	0.5	12
69	Different Functional and Structural Characteristics between ApoA-I and ApoA-4 in Lipid-Free and Reconstituted HDL State: ApoA-4 Showed Less Anti-Atherogenic Activity. <i>Molecules and Cells</i> , 2015, 38, 573-579.	2.6	12
70	Monitoring of proteolytic enzyme activity using phase transition-based peptide arrays. <i>Biosensors and Bioelectronics</i> , 2012, 36, 147-153.	10.1	11
71	Generation of a novel proform of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) protein that can be reactivated by matrix metalloproteinases. <i>Experimental Cell Research</i> , 2006, 312, 3892-3898.	2.6	10
72	DNA-based prenatal diagnosis of a Korean family with tyrosinase-related oculocutaneous albinism (OCA1). <i>Japanese Journal of Human Genetics</i> , 1997, 42, 499-505.	0.8	9

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73	Mutations of the Tyrosinase gene in three Korean patients with Type I oculocutaneous albinism. Japanese Journal of Human Genetics, 1996, 41, 299-305.	0.8	8
74	Complete sequence-specific ¹ H, ¹³ C and ¹⁵ N resonance assignments of the human PTK6 SH2 domain. Journal of Biomolecular NMR, 2001, 19, 291-292.	2.8	8
75	Identification of Plasma Membrane Glycoproteins Specific to Human Glioblastoma Multiforme Cells Using Lectin Arrays and LC-MS/MS. Proteomics, 2018, 18, 1700302.	2.2	8
76	PTK7, a Catalytically Inactive Receptor Tyrosine Kinase, Increases Oncogenic Phenotypes in Xenograft Tumors of Esophageal Squamous Cell Carcinoma KYSE-30 Cells. International Journal of Molecular Sciences, 2022, 23, 2391.	4.1	7
77	Characterization of the 5' flanking region of the human PTK6 gene. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2002, 1574, 365-369.	2.4	6
78	On-chip assay of matrix metalloproteinase-3 activity using fluorescence-conjugated gelatin arrays. Biochip Journal, 2010, 4, 210-216.	4.9	6
79	Tyrosine 51 residue of the syndecan-2 extracellular domain is involved in the interaction with and activation of pro-matrix metalloproteinase-7. Scientific Reports, 2019, 9, 10625.	3.3	6
80	Characterization of TAMRA- and biotin-conjugated peptide arrays for on-chip matrix metalloproteinase activity assay. Biochip Journal, 2012, 6, 307-313.	4.9	3
81	Novel mutations of the P gene in type II oculocutaneous albinism (OCA2). Human Mutation, 1997, 10, 175-177.	2.5	3
82	Polyamine Oxidase Expression Is Downregulated by 17 β -Estradiol via Estrogen Receptor 2 in Human MCF-7 Breast Cancer Cells. International Journal of Molecular Sciences, 2022, 23, 7521.	4.1	3
83	Inhibition of Invasion and Capillary-like Tube Formation by Retrohydroxamate-based MMP Inhibitors. Bulletin of the Korean Chemical Society, 2011, 32, 2032-2038.	1.9	2
84	Novel Associations between Related Proteins and Cellular Effects of High-Density Lipoprotein. Korean Circulation Journal, 2020, 50, 236.	1.9	1
85	High Level Production of human Protein Tyrosine Kinase-6 in Insect Cells Using Drosophila Peptidoglycan Recognition Protein-LB as a fusion protein. Journal of Life Science, 2007, 17, 179-184.	0.2	0