Lester F Lau

List of Publications by Year
in descending order

115 papers	17,864 citations	16411 64 h-index	24915 109 g-index
118 all docs	118 docs citations	118 times ranked	13135 citing authors

#	Article	IF	Citations
1	MKP-1 (3CH134), an immediate early gene product, is a dual specificity phosphatase that dephosphorylates MAP kinase in vivo. Cell, 1993, 75, 487-493.	13.5	1,158
2	Expression of a set of growth-related immediate early genes in BALB/c 3T3 cells: coordinate regulation with c-fos or c-myc.. Proceedings of the National Academy of Sciences of the United States of America, 1987, 84, 1182-1186.	3.3	862
3	The matricellular protein CCN1 induces fibroblast senescence and restricts fibrosis in cutaneous wound healing. Nature Cell Biology, 2010, 12, 676-685.	4.6	779
4	A gene activated by growth factors is related to the oncogene v-jun.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1487-1491.	3.3	733
5	A gene activated in mouse 3T3 cells by serum growth factors encodes a protein with "zinc finger" sequences.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 7857-7861.	3.3	687
6	The CCN Family of Angiogenic Regulators: The Integrin Connection. Experimental Cell Research, 1999, 248, 44-57.	1.2	610
7	Taking aim at the extracellular matrix: CCN proteins as emerging therapeutic targets. Nature Reviews Drug Discovery, 2011, 10, 945-963.	21.5	528
8	A gene inducible by serum growth factors encodes a member of the steroid and thyroid hormone receptor superfamily.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 8444-8448.	3.3	504
9	Growth factors and membrane depolarization activate distinct programs of early response gene expression: dissociation of fos and jun induction.. Genes and Development, 1989, 3, 304-313.	2.7	485
10	Functions and mechanisms of action of CCN matricellular proteins. International Journal of Biochemistry and Cell Biology, 2009, 41, 771-783.	1.2	478
11	Fisp12/Mouse Connective Tissue Growth Factor Mediates Endothelial Cell Adhesion and Migration through Integrin Î±_vÎ²₃, Promotes Endothelial Cell Survival, and Induces Angiogenesis In Vivo. Molecular and Cellular Biology, 1999, 19, 2958-2966.	1.1	437
12	CYR61, a product of a growth factor-inducible immediate early gene, promotes angiogenesis and tumor growth. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 6355-6360.	3.3	432
13	CYR61 (CCN1) Is Essential for Placental Development and Vascular Integrity. Molecular and Cellular Biology, 2002, 22, 8709-8720.	1.1	380
14	An Id-related helix-loop-helix protein encoded by a growth factor-inducible gene.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 1815-1819.	3.3	334
15	Evidence of p53-Dependent Cross-Talk between Ribosome Biogenesis and the Cell Cycle: Effects of Nucleolar Protein Bop1 on G 1 /S Transition. Molecular and Cellular Biology, 2001, 21, 4246-4255.	1.1	319
16	Cyr61, a Product of a Growth Factor-Inducible Immediate-Early Gene, Promotes Cell Proliferation, Migration, and Adhesion. Molecular and Cellular Biology, 1996, 16, 1326-1334.	1.1	309
17	The Angiogenic Factors Cyr61 and Connective Tissue Growth Factor Induce Adhesive Signaling in Primary Human Skin Fibroblasts. Journal of Biological Chemistry, 2001, 276, 10443-10452.	1.6	274
18	CCN1/CYR61: the very model of a modern matricellular protein. Cellular and Molecular Life Sciences, 2011, 68, 3149-3163.	2.4	260

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19	The Angiogenic Factor Cyr61 Activates a Genetic Program for Wound Healing in Human Skin Fibroblasts. Journal of Biological Chemistry, 2001, 276, 47329-47337.	1.6	256
20	Resolution of organ fibrosis. Journal of Clinical Investigation, 2018, 128, 97-107.	3.9	245
21	Cyr61 and Fisp12 Are Both ECM-Associated Signaling Molecules: Activities, Metabolism, and Localization during Development. Experimental Cell Research, 1997, 233, 63-77.	1.2	243
22	Matricellular Protein CCN1 Promotes Regression of Liver Fibrosis through Induction of Cellular Senescence in Hepatic Myofibroblasts. Molecular and Cellular Biology, 2013, 33, 2078-2090.	1.1	227
23	Identification of integrin Î±MÎ²2 as an adhesion receptor on peripheral blood monocytes for Cyr61 (CCN1) and connective tissue growth factor (CCN2): immediate-early gene products expressed in atherosclerotic lesions. Blood, 2002, 99, 4457-4465.	0.6	224
24	Pro-angiogenic Activities of CYR61 (CCN1) Mediated through Integrins Î±vÎ²3 and Î±6Î²1 in Human Umbilical Vein Endothelial Cells. Journal of Biological Chemistry, 2002, 277, 46248-46255.	1.6	221
25	FoxM1, a critical regulator of oxidative stress during oncogenesis. EMBO Journal, 2009, 28, 2908-2918.	3.5	204
26	Activation-dependent Adhesion of Human Platelets to Cyr61 and Fisp12/Mouse Connective Tissue Growth Factor Is Mediated through Integrin Î±IIbÎ²3. Journal of Biological Chemistry, 1999, 274, 24321-24327.	1.6	196
27	Cellular senescence controls fibrosis in wound healing. Aging, 2010, 2, 627-631.	1.4	196
28	The growth factor-inducible immediate-early gene 3CH134 encodes a protein-tyrosine-phosphatase.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 5292-5296.	3.3	194
29	Adhesion of Human Umbilical Vein Endothelial Cells to the Immediate-Early Gene Product Cyr61 Is Mediated through Integrin Î±vÎ²3. Journal of Biological Chemistry, 1998, 273, 3090-3096.	1.6	192
30	Adhesion of Human Skin Fibroblasts to Cyr61 Is Mediated through Integrin Î±6Î²1 and Cell Surface Heparan Sulfate Proteoglycans. Journal of Biological Chemistry, 2000, 275, 24953-24961.	1.6	177
31	Phage lambda gene Q antiterminator recognizes RNA polymerase near the promoter and accelerates it through a pause site. Cell, 1985, 42, 259-269.	13.5	174
32	Fructose stimulated de novo lipogenesis is promoted by inflammation. Nature Metabolism, 2020, 2, 1034-1045.	5.1	174
33	Bop1 Is a Mouse WD40 Repeat Nucleolar Protein Involved in 28S and 5.8S rRNA Processing and 60S Ribosome Biogenesis. Molecular and Cellular Biology, 2000, 20, 5516-5528.	1.1	165
34	The Angiogenic Factor Cysteine-Rich 61 (CYR61, CCN1) Supports Vascular Smooth Muscle Cell Adhesion and Stimulates Chemotaxis through Integrin Î±6Î²1 and Cell Surface Heparan Sulfate Proteoglycans. Endocrinology, 2002, 143, 1441-1450.	1.4	161
35	CCN3 (NOV) Is a Novel Angiogenic Regulator of the CCN Protein Family. Journal of Biological Chemistry, 2003, 278, 24200-24208.	1.6	161
36	CYR61 Stimulates Human Skin Fibroblast Migration through Integrin Î±vÎ²5 and Enhances Mitogenesis through Integrin Î±vÎ²3, Independent of Its Carboxyl-terminal Domain. Journal of Biological Chemistry, 2001, 276, 21943-21950.	1.6	148

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37	Cell surface receptors for CCN proteins. Journal of Cell Communication and Signaling, 2016, 10, 121-127.	1.8	147
38	Cyr61, Product of a Growth Factor-Inducible Immediate-Early Gene, Regulates Chondrogenesis in Mouse Limb Bud Mesenchymal Cells. Developmental Biology, 1997, 192, 492-508.	0.9	140
39	Matricellular Protein CCN1 Activates a Proinflammatory Genetic Program in Murine Macrophages. Journal of Immunology, 2010, 184, 3223-3232.	0.4	140
40	Cytotoxicity of TNFÎ± is regulated by integrin-mediated matrix signaling. EMBO Journal, 2007, 26, 1257-1267.	3.5	133
41	The matricellular protein CCN1 mediates neutrophil efferocytosis in cutaneous wound healing. Nature Communications, 2015, 6, 7386.	5.8	130
42	Deregulation of FoxM1b leads to tumour metastasis. EMBO Molecular Medicine, 2011, 3, 21-34.	3.3	127
43	FoxM1 Regulates Transcription of JNK1 to Promote the G1/S Transition and Tumor Cell Invasiveness. Journal of Biological Chemistry, 2008, 283, 20770-20778.	1.6	119
44	Prostaglandin F2Î±-induced Expression of 20Î±-Hydroxysteroid Dehydrogenase Involves the Transcription Factor NUR77. Journal of Biological Chemistry, 2000, 275, 37202-37211.	1.6	118
45	Identification of a Novel Integrin Î±6Î²1 Binding Site in the Angiogenic Inducer CCN1 (CYR61). Journal of Biological Chemistry, 2003, 278, 33801-33808.	1.6	118
46	Physical and Functional Interaction between Pes1 and Bop1 in Mammalian Ribosome Biogenesis. Molecular Cell, 2004, 15, 17-29.	4.5	118
47	Identification of a Novel Integrin Î±vÎ²3 Binding Site in CCN1 (CYR61) Critical for Pro-angiogenic Activities in Vascular Endothelial Cells. Journal of Biological Chemistry, 2004, 279, 44166-44176.	1.6	115
48	Integrin-dependent Functions of the Angiogenic Inducer NOV (CCN3). Journal of Biological Chemistry, 2005, 280, 8229-8237.	1.6	112
49	The matrix protein CCN1 (CYR61) induces apoptosis in fibroblasts. Journal of Cell Biology, 2005, 171, 559-568.	2.3	109
50	A Calcium/Calmodulin-dependent Activation of ERK1/2 Mediates JunD Phosphorylation and Induction of nur77 and20Î±-hsd Genes by Prostaglandin F2Î± in Ovarian Cells. Journal of Biological Chemistry, 2002, 277, 3293-3302.	1.6	107
51	Anaphase-Promoting Complex/Cyclosome-Cdh1-Mediated Proteolysis of the Forkhead Box M1 Transcription Factor Is Critical for Regulated Entry into S Phase. Molecular and Cellular Biology, 2008, 28, 5162-5171.	1.1	103
52	The Matricellular Protein CCN1 Is Essential for Cardiac Development. Circulation Research, 2006, 99, 961-969.	2.0	101
53	Mechanical Regulation of the Proangiogenic Factor CCN1/CYR61 Gene Requires the Combined Activities of MRTF-A and CREB-binding Protein Histone Acetyltransferase. Journal of Biological Chemistry, 2009, 284, 23125-23136.	1.6	101
54	Cyclosporin A blocks apoptosis by inhibiting the DNA binding activity of the transcription factor Nur77.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 437-441.	3.3	96

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55	Promoter function and structure of the growth factorinducible immediate early genecyr61. Nucleic Acids Research, 1991, 19, 3261-3267.	6.5	91
56	Functional Inactivation of the Mouse Nucleolar Protein Bop1 Inhibits Multiple Steps in Pre-rRNA Processing and Blocks Cell Cycle Progression. Journal of Biological Chemistry, 2002, 277, 29617-29625.	1.6	91
57	Genes induced by serum growth factors. Molecular Aspects of Cellular Regulation, 1991, 6, 257-293.	1.4	85
58	Transcription terminates at lambda tR1 in three clusters.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 6171-6175.	3.3	84
59	CCN1 induces hepatic ductular reaction through integrin Î±vÎ²5â€“mediated activation of NF-ÎºB. Journal of Clinical Investigation, 2015, 125, 1886-1900.	3.9	84
60	Transcriptional Activation by Nur77, a Growth Factor-Inducible Member of the Steroid Hormone Receptor Superfamily. Molecular Endocrinology, 1991, 5, 854-859.	3.7	78
61	A Conserved Phosphorylation Site within the Forkhead Domain of FoxM1B Is Required for Its Activation by Cyclin-CDK1. Journal of Biological Chemistry, 2009, 284, 30695-30707.	1.6	77
62	Human CYR61-mediated enhancement of bFGF-induced DNA synthesis in human umbilical vein endothelial cells. Oncogene, 1998, 16, 747-754.	2.6	73
63	Silencing of RNA Helicase II/GuÎ± Inhibits Mammalian Ribosomal RNA Production. Journal of Biological Chemistry, 2003, 278, 52307-52314.	1.6	71
64	CCN1-Induced Cellular Senescence Promotes Heart Regeneration. Circulation, 2019, 139, 2495-2498.	1.6	67
65	Raf and Fibroblast Growth Factor Phosphorylate Elk1 and Activate the Serum Response Element of the Immediate Early Genepip92 by Mitogen-Activated Protein Kinase-Independent as Well as -Dependent Signaling Pathways. Molecular and Cellular Biology, 1998, 18, 2272-2281.	1.1	66
66	An N-terminal inhibitory domain modulates activity of FoxM1 during cell cycle. Oncogene, 2008, 27, 1696-1704.	2.6	66
67	Fas-Mediated Apoptosis Is Regulated by the Extracellular Matrix Protein CCN1 (CYR61) In Vitro and In Vivo. Molecular and Cellular Biology, 2009, 29, 3266-3279.	1.1	65
68	Identification of a Novel Integrin Î±MÎ²2 Binding Site in CCN1 (CYR61), a Matricellular Protein Expressed in Healing Wounds and Atherosclerotic Lesions. Journal of Biological Chemistry, 2003, 278, 25808-25815.	1.6	64
69	Targeted Mutagenesis of the Angiogenic Protein CCN1 (CYR61). Journal of Biological Chemistry, 2004, 279, 44177-44187.	1.6	63
70	[7] Synthetic adaptors for cloning DNA. Methods in Enzymology, 1979, 68, 98-109.	0.4	62
71	Assays for Ribosomal RNA Processing and Ribosome Assembly. Current Protocols in Cell Biology, 2008, 39, Unit 22.11.	2.3	59
72	Matrix Protein CCN1 Is Critical for Prostate Carcinoma Cell Proliferation and TRAIL-Induced Apoptosis. Molecular Cancer Research, 2009, 7, 1045-1055.	1.5	59

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73	The matricellular protein CCN1 in tissue injury repair. Journal of Cell Communication and Signaling, 2018, 12, 273-279.	1.8	58
74	Functional domains and phosphorylation of the orphan receptor Nur77. Molecular Endocrinology, 1993, 7, 953-964.	3.7	58
75	Promoter Function of the Angiogenic Inducer Cyr61Gene in Transgenic Mice: Tissue Specificity, Inducibility During Wound Healing, and Role of the Serum Response Element*. Endocrinology, 2001, 142, 2549-2557.	1.4	57
76	Role of Î²-catenin-regulated CCN matricellular proteins in epithelial repair after inflammatory lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 304, L415-L427.	1.3	57
77	Rapid deactivation of MAP kinase in PC12 cells occurs independently of induction of phosphatase MKP-1. FEBS Letters, 1994, 353, 9-12.	1.3	56
78	Antiangiogenic antithrombin down-regulates the expression of the proangiogenic heparan sulfate proteoglycan, perlecan, in endothelial cells. Blood, 2004, 103, 1185-1191.	0.6	55
79	FoxM1 Regulates Growth Factor-induced Expression of Kinase-interacting Stathmin (KIS) to Promote Cell Cycle Progression. Journal of Biological Chemistry, 2008, 283, 453-460.	1.6	51
80	Elk-1 Can Recruit SRF to Form a Ternary Complex Upon the Serum Response Element. Nucleic Acids Research, 1996, 24, 1345-1351.	6.5	50
81	CCN Proteins Are Distinct from and Should Not Be Considered Members of the Insulin-Like Growth Factor-Binding Protein Superfamily. Endocrinology, 2000, 141, 2254-2256.	1.4	49
82	CCN2 induces cellular senescence in fibroblasts. Journal of Cell Communication and Signaling, 2017, 11, 15-23.	1.8	49
83	Deadly liaisons: fatal attraction between CCN matricellular proteins and the tumor necrosis factor family of cytokines. Journal of Cell Communication and Signaling, 2010, 4, 63-69.	1.8	46
84	Cyr61 Protects against Hyperoxia-Induced Cell Death via Akt Pathway in Pulmonary Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2005, 33, 297-302.	1.4	44
85	TNFÎ±-Induced Apoptosis Enabled by CCN1/CYR61: Pathways of Reactive Oxygen Species Generation and Cytochrome c Release. PLoS ONE, 2012, 7, e31303.	1.1	44
86	The Angiogenic Factor Cysteine-Rich 61 (CYR61, CCN1) Supports Vascular Smooth Muscle Cell Adhesion and Stimulates Chemotaxis through Integrin Î±6Î²1 and Cell Surface Heparan Sulfate Proteoglycans. , 0, .		44
87	Expression of Angiogenic Factor Cyr61 during Neuronal Cell Death via the Activation of c-Jun N-terminal Kinase and Serum Response Factor. Journal of Biological Chemistry, 2003, 278, 13847-13854.	1.6	41
88	Expression of immediate early gene pip92 during anisomycin-induced cell death is mediated by the JNK- and p38-dependent activation of Elk1. FEBS Journal, 2000, 267, 4676-4684.	0.2	40
89	Adrenocorticotropic Hormone Regulates the Activities of the Orphan Nuclear Receptor Nur77 through Modulation of Phosphorylation*. Endocrinology, 1997, 138, 4138-4146.	1.4	39
90	Negative regulation of the oncogenic transcription factor FoxM1 by thiazolidinediones and mithramycin. Cancer Biology and Therapy, 2010, 9, 1008-1016.	1.5	38

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91	Isolation of growth suppressors from a cDNA expression library. Oncogene, 1998, 17, 3187-3197.	2.6	37
92	The heparin-binding site of antithrombin is crucial for antiangiogenic activity. Blood, 2005, 106, 1621-1628.	0.6	33
93	Degradome Products of the Matricellular Protein CCN1 as Modulators of Pathological Angiogenesis in the Retina. Journal of Biological Chemistry, 2013, 288, 23075-23089.	1.6	29
94	Induction of the matricellular protein CCN1 through RhoA and MRTF-A contributes to ischemic cardioprotection. Journal of Molecular and Cellular Cardiology, 2014, 75, 152-161.	0.9	29
95	CCN1 and CCN2: blood brothers in angiogenic action. Journal of Cell Communication and Signaling, 2012, 6, 121-123.	1.8	28
96	Interplay between CCN1 and Wnt5a in endothelial cells and pericytes determines the angiogenic outcome in a model of ischemic retinopathy. Scientific Reports, 2017, 7, 1405.	1.6	26
97	CCN1 is an opsonin for bacterial clearance and a direct activator of Toll-like receptor signaling. Nature Communications, 2020, 11, 1242.	5.8	26
98	Promoter Function of the Angiogenic Inducer Cyr61Gene in Transgenic Mice: Tissue Specificity, Inducibility During Wound Healing, and Role of the Serum Response Element. , 0, .		23
99	Flow Cytometric Analysis of the Cell Cycle in Transfected Cells Without Cell Fixation. BioTechniques, 1999, 26, 102-106.	0.8	22
100	Restricting Conformational Flexibility of the Switch II Region Creates a Dominant-Inhibitory Phenotype in Obg GTPase Nog1. Molecular and Cellular Biology, 2007, 27, 7735-7744.	1.1	20
101	CCN3 and bone marrow cells. Journal of Cell Communication and Signaling, 2009, 3, 135-145.	1.8	18
102	Senescent hepatic stellate cells promote liver regeneration through IL-6 and ligands of CXCR2. JCI Insight, 2022, 7, .	2.3	16
103	Recombinant CCN1 prevents hyperoxia-induced lung injury in neonatal rats. Pediatric Research, 2017, 82, 863-871.	1.1	15
104	A potential stem-loop structure and the sequence CAAUCAA in the transcript are insufficient to signal Ï±-dependent transcription termination at Î»tR1. Nucleic Acids Research, 1984, 12, 1287-1299.	6.5	14
105	Estrogen-Induced CCN1 Is Critical for Establishment of Endometriosis-Like Lesions in Mice. Molecular Endocrinology, 2014, 28, 1934-1947.	3.7	13
106	Ependymaâ€expressed <scp>CCN</scp> 1 restricts the size of the neural stem cell pool in the adult ventricularâ€subventricular zone. EMBO Journal, 2020, 39, e101679.	3.5	12
107	Matricellular Proteins. , 2011, , 369-413.		11
108	INTEGRIN-MEDIATED CCN FUNCTIONS. , 2005, , 61-79.		11

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109	Regulation of Gene Expression by Serum Growth Factors. , 1992, , 115-162.		10
110	The Extracellular Matrix Protein CCN1 Dictates TNFÎ± and FasL Cytotoxicity In Vivo. Advances in Experimental Medicine and Biology, 2011, 691, 595-603.	0.8	9
111	CCN Proteins Are Distinct from, and Should Not Be Considered Members of, the Insulin-Like Growth Factor-Binding Protein Superfamily. , 0, .		4
112	CCN1 in hepatobiliary injury repair. Oncotarget, 2015, 6, 34053-34054.	0.8	3
113	IPTG-Inducible Episomal Expression System for Exogenous Genes in Primate Cells. BioTechniques, 2000, 28, 577-581.	0.8	2
114	Robert H. Costa: 1957-2006. Hepatology, 2006, 44, 1364-1364.	3.6	1
115	Construction and Analysis of an Allelic Series of Ccn1 Knockin Mice. Methods in Molecular Biology, 2017, 1489, 361-376.	0.4	1