Lester F Lau

List of Publications by Year in Descending Order

113 papers	15,560 citations	62 h-index	117 g-index
117 ext. papers	16,572 ext. citations	8.7 avg, IF	6.7 L-index

#	Paper	IF	Citations
113	Ependyma-expressed CCN1 restricts the size of the neural stem cell pool in the adult ventricular-subventricular zone. *EMBO Journal*, **2020**, 39, e101679	13	3
112	CCN1 is an opsonin for bacterial clearance and a direct activator of Toll-like receptor signaling. *Nature Communications*, **2020**, 11, 1242	17.4	12
111	Fructose stimulated de novo lipogenesis is promoted by inflammation. *Nature Metabolism*, **2020**, 2, 1034-1045	14.6	65
110	CCN1-Induced Cellular Senescence Promotes Heart Regeneration. *Circulation*, **2019**, 139, 2495-2498	16.7	40
109	The matricellular protein CCN1 in tissue injury repair. *Journal of Cell Communication and Signaling*, **2018**, 12, 273-279	5.2	33
108	Resolution of organ fibrosis. *Journal of Clinical Investigation*, **2018**, 128, 97-107	15.9	136
107	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	4.9	16
106	Recombinant CCN1 prevents hyperoxia-induced lung injury in neonatal rats. *Pediatric Research*, **2017**, 82, 863-871	3.2	14
105	CCN2 induces cellular senescence in fibroblasts. *Journal of Cell Communication and Signaling*, **2017**, 11, 15-23	5.2	26
104	Construction and Analysis of an Allelic Series of Ccn1 Knockin Mice. *Methods in Molecular Biology*, **2017**, 1489, 361-376	1.4	
103	Cell surface receptors for CCN proteins. *Journal of Cell Communication and Signaling*, **2016**, 10, 121-7	5.2	106
102	The matricellular protein CCN1 mediates neutrophil efferocytosis in cutaneous wound healing. *Nature Communications*, **2015**, 6, 7386	17.4	89
101	CCN1 induces hepatic ductular reaction through integrin □□mediated activation of NF-□. *Journal of Clinical Investigation*, **2015**, 125, 1886-900	15.9	61
100	Induction of the matricellular protein CCN1 through RhoA and MRTF-A contributes to ischemic cardioprotection. *Journal of Molecular and Cellular Cardiology*, **2014**, 75, 152-61	5.8	26
99	Estrogen-induced CCN1 is critical for establishment of endometriosis-like lesions in mice. *Molecular Endocrinology*, **2014**, 28, 1934-47		11
98	Role of □catenin-regulated CCN matricellular proteins in epithelial repair after inflammatory lung injury. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2013**, 304, L415-27	5.8	46
97	Degradome products of the matricellular protein CCN1 as modulators of pathological angiogenesis in the retina. *Journal of Biological Chemistry*, **2013**, 288, 23075-89	5.4	24

96	Matricellular protein CCN1 promotes regression of liver fibrosis through induction of cellular senescence in hepatic myofibroblasts. *Molecular and Cellular Biology*, **2013**, 33, 2078-90	4.8	185
95	CCN1 and CCN2: blood brothers in angiogenic action. *Journal of Cell Communication and Signaling*, **2012**, 6, 121-3	5.2	26
94	TNF□induced apoptosis enabled by CCN1/CYR61: pathways of reactive oxygen species generation and cytochrome c release. *PLoS ONE*, **2012**, 7, e31303	3.7	38
93	Taking aim at the extracellular matrix: CCN proteins as emerging therapeutic targets. *Nature Reviews Drug Discovery*, **2011**, 10, 945-63	64.1	429
92	CCN1/CYR61: the very model of a modern matricellular protein. *Cellular and Molecular Life Sciences*, **2011**, 68, 3149-63	10.3	210
91	Deregulation of FoxM1b leads to tumour metastasis. *EMBO Molecular Medicine*, **2011**, 3, 21-34	12	109
90	Matricellular Proteins **2011**, 369-413		7
89	The extracellular matrix protein CCN1 dictates TNF□and FasL cytotoxicity in vivo. *Advances in Experimental Medicine and Biology*, **2011**, 691, 595-603	3.6	7
88	Negative regulation of the oncogenic transcription factor FoxM1 by thiazolidinediones and mithramycin. *Cancer Biology and Therapy*, **2010**, 9, 1008-16	4.6	31
87	Matricellular protein CCN1 activates a proinflammatory genetic program in murine macrophages. *Journal of Immunology*, **2010**, 184, 3223-32	5.3	118
86	The matricellular protein CCN1 induces fibroblast senescence and restricts fibrosis in cutaneous wound healing. *Nature Cell Biology*, **2010**, 12, 676-85	23.4	596
85	Deadly liaisons: fatal attraction between CCN matricellular proteins and the tumor necrosis factor family of cytokines. *Journal of Cell Communication and Signaling*, **2010**, 4, 63-9	5.2	43
84	Cellular senescence controls fibrosis in wound healing. *Aging*, **2010**, 2, 627-31	5.6	162
83	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, 23125-36	5.4	89
82	A conserved phosphorylation site within the forkhead domain of FoxM1B is required for its activation by cyclin-CDK1. *Journal of Biological Chemistry*, **2009**, 284, 30695-707	5.4	62
81	Matrix protein CCN1 is critical for prostate carcinoma cell proliferation and TRAIL-induced apoptosis. *Molecular Cancer Research*, **2009**, 7, 1045-55	6.6	55
80	Fas-mediated apoptosis is regulated by the extracellular matrix protein CCN1 (CYR61) in vitro and in vivo. *Molecular and Cellular Biology*, **2009**, 29, 3266-79	4.8	62
79	CCN3 and bone marrow cells. *Journal of Cell Communication and Signaling*, **2009**, 3, 135-45	5.2	17

78	FoxM1, a critical regulator of oxidative stress during oncogenesis. *EMBO Journal*, **2009**, 28, 2908-18	13	177
77	Functions and mechanisms of action of CCN matricellular proteins. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 771-83	5.6	431
76	An N-terminal inhibitory domain modulates activity of FoxM1 during cell cycle. *Oncogene*, **2008**, 27, 1696-704	7.2	56
75	FoxM1 regulates transcription of JNK1 to promote the G1/S transition and tumor cell invasiveness. *Journal of Biological Chemistry*, **2008**, 283, 20770-8	5.4	101
74	FoxM1 regulates growth factor-induced expression of kinase-interacting stathmin (KIS) to promote cell cycle progression. *Journal of Biological Chemistry*, **2008**, 283, 453-460	5.4	47
73	Assays for ribosomal RNA processing and ribosome assembly. *Current Protocols in Cell Biology*, **2008**, Chapter 22, Unit 22.11	2.3	53
72	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, 5162-71	4.8	89
71	Cytotoxicity of TNFalpha is regulated by integrin-mediated matrix signaling. *EMBO Journal*, **2007**, 26, 1257-67	13	126
70	Restricting conformational flexibility of the switch II region creates a dominant-inhibitory phenotype in Obg GTPase Nog1. *Molecular and Cellular Biology*, **2007**, 27, 7735-44	4.8	16
69	Robert H. Costa: 1957-2006. *Hepatology*, **2006**, 44, 1364	11.2	1
68	The matricellular protein CCN1 is essential for cardiac development. *Circulation Research*, **2006**, 99, 961-9	15.7	93
67	The heparin-binding site of antithrombin is crucial for antiangiogenic activity. *Blood*, **2005**, 106, 1621-8	2.2	30
66	Integrin-dependent functions of the angiogenic inducer NOV (CCN3): implication in wound healing. *Journal of Biological Chemistry*, **2005**, 280, 8229-37	5.4	91
65	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	5.7	39
64	The matrix protein CCN1 (CYR61) induces apoptosis in fibroblasts. *Journal of Cell Biology*, **2005**, 171, 559-68	7.3	101
63	INTEGRIN-MEDIATED CCN FUNCTIONS **2005**, 61-79		11
62	Targeted mutagenesis of the angiogenic protein CCN1 (CYR61). Selective inactivation of integrin alpha6beta1-heparan sulfate proteoglycan coreceptor-mediated cellular functions. *Journal of Biological Chemistry*, **2004**, 279, 44177-87	5.4	58
61	Identification of a novel integrin alphavbeta3 binding site in CCN1 (CYR61) critical for pro-angiogenic activities in vascular endothelial cells. *Journal of Biological Chemistry*, **2004**, 279, 44166-76	5.4	101

60	Physical and functional interaction between Pes1 and Bop1 in mammalian ribosome biogenesis. *Molecular Cell*, **2004**, 15, 17-29	17.6	99
59	Antiangiogenic antithrombin down-regulates the expression of the proangiogenic heparan sulfate proteoglycan, perlecan, in endothelial cells. *Blood*, **2004**, 103, 1185-91	2.2	49
58	Identification of a novel integrin alphaMbeta2 binding site in CCN1 (CYR61), a matricellular protein expressed in healing wounds and atherosclerotic lesions. *Journal of Biological Chemistry*, **2003**, 278, 25808-15	5.4	55
57	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, 13847-54	5.4	30
56	Silencing of RNA helicase II/Gualpha inhibits mammalian ribosomal RNA production. *Journal of Biological Chemistry*, **2003**, 278, 52307-14	5.4	58
55	CCN3 (NOV) is a novel angiogenic regulator of the CCN protein family. *Journal of Biological Chemistry*, **2003**, 278, 24200-8	5.4	134
54	Identification of a novel integrin alpha 6 beta 1 binding site in the angiogenic inducer CCN1 (CYR61). *Journal of Biological Chemistry*, **2003**, 278, 33801-8	5.4	109
53	A calcium/calmodulin-dependent activation of ERK1/2 mediates JunD phosphorylation and induction of nur77 and 20alpha-hsd genes by prostaglandin F2alpha in ovarian cells. *Journal of Biological Chemistry*, **2002**, 277, 3293-302	5.4	89
52	Pro-angiogenic activities of CYR61 (CCN1) mediated through integrins alphavbeta3 and alpha6beta1 in human umbilical vein endothelial cells. *Journal of Biological Chemistry*, **2002**, 277, 46248-55	5.4	196
51	The angiogenic factor cysteine-rich 61 (CYR61, CCN1) supports vascular smooth muscle cell adhesion and stimulates chemotaxis through integrin alpha(6)beta(1) and cell surface heparan sulfate proteoglycans. *Endocrinology*, **2002**, 143, 1441-50	4.8	152
50	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, 29617-25	5.4	84
49	CYR61 (CCN1) is essential for placental development and vascular integrity. *Molecular and Cellular Biology*, **2002**, 22, 8709-20	4.8	342
48	Identification of integrin alpha(M)beta(2) 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, 4457-65	2.2	204
47	The angiogenic factor Cyr61 activates a genetic program for wound healing in human skin fibroblasts. *Journal of Biological Chemistry*, **2001**, 276, 47329-37	5.4	211
46	The angiogenic factors Cyr61 and connective tissue growth factor induce adhesive signaling in primary human skin fibroblasts. *Journal of Biological Chemistry*, **2001**, 276, 10443-52	5.4	240
45	CYR61 stimulates human skin fibroblast migration through Integrin alpha vbeta 5 and enhances mitogenesis through integrin alpha vbeta 3, independent of its carboxyl-terminal domain. *Journal of Biological Chemistry*, **2001**, 276, 21943-50	5.4	125
44	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, 2549-57	4.8	52
43	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, 4246-55	4.8	275

42	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, 4676-84		35
41	IPTG-inducible episomal expression system for exogenous genes in primate cells. *BioTechniques*, **2000**, 28, 577-81	2.5	2
40	Prostaglandin F2alpha-induced expression of 20alpha-hydroxysteroid dehydrogenase involves the transcription factor NUR77. *Journal of Biological Chemistry*, **2000**, 275, 37202-11	5.4	102
39	Adhesion of human skin fibroblasts to Cyr61 is mediated through integrin alpha 6beta 1 and cell surface heparan sulfate proteoglycans. *Journal of Biological Chemistry*, **2000**, 275, 24953-61	5.4	149
38	CCN proteins are distinct from and should not be considered members of the insulin-like growth factor-binding protein superfamily. *Endocrinology*, **2000**, 141, 2254-6	4.8	47
37	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, 5516-28	4.8	149
36	Flow cytometric analysis of the cell cycle in transfected cells without cell fixation. *BioTechniques*, **1999**, 26, 102-6	2.5	22
35	Activation-dependent adhesion of human platelets to Cyr61 and Fisp12/mouse connective tissue growth factor is mediated through integrin alpha(IIb)beta(3). *Journal of Biological Chemistry*, **1999**, 274, 24321-7	5.4	173
34	The CCN family of angiogenic regulators: the integrin connection. *Experimental Cell Research*, **1999**, 248, 44-57	4.2	573
33	Fisp12/mouse connective tissue growth factor mediates endothelial cell adhesion and migration through integrin alphavbeta3, promotes endothelial cell survival, and induces angiogenesis in vivo. *Molecular and Cellular Biology*, **1999**, 19, 2958-66	4.8	403
32	Human CYR61-mediated enhancement of bFGF-induced DNA synthesis in human umbilical vein endothelial cells. *Oncogene*, **1998**, 16, 747-54	9.2	67
31	Isolation of growth suppressors from a cDNA expression library. *Oncogene*, **1998**, 17, 3187-97	9.2	33
30	Adhesion of human umbilical vein endothelial cells to the immediate-early gene product Cyr61 is mediated through integrin alphavbeta3. *Journal of Biological Chemistry*, **1998**, 273, 3090-6	5.4	171
29	Raf and fibroblast growth factor phosphorylate Elk1 and activate the serum response element of the immediate early gene pip92 by mitogen-activated protein kinase-independent as well as -dependent signaling pathways. *Molecular and Cellular Biology*, **1998**, 18, 2272-81	4.8	65
28	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, 6355-60	11.5	377
27	Adrenocorticotropic hormone regulates the activities of the orphan nuclear receptor Nur77 through modulation of phosphorylation. *Endocrinology*, **1997**, 138, 4138-46	4.8	37
26	Cyr61, product of a growth factor-inducible immediate-early gene, regulates chondrogenesis in mouse limb bud mesenchymal cells. *Developmental Biology*, **1997**, 192, 492-508	3.1	128
25	Cyr61 and Fisp12 are both ECM-associated signaling molecules: activities, metabolism, and localization during development. *Experimental Cell Research*, **1997**, 233, 63-77	4.2	222

24	Cyr61, a product of a growth factor-inducible immediate-early gene, promotes cell proliferation, migration, and adhesion. *Molecular and Cellular Biology*, **1996**, 16, 1326-34	4.8	292
23	Elk-1 can recruit SRF to form a ternary complex upon the serum response element. *Nucleic Acids Research*, **1996**, 24, 1345-51	20.1	40
22	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, 437-41	11.5	83
21	Rapid deactivation of MAP kinase in PC12 cells occurs independently of induction of phosphatase MKP-1. *FEBS Letters*, **1994**, 353, 9-12	3.8	49
20	MKP-1 (3CH134), an immediate early gene product, is a dual specificity phosphatase that dephosphorylates MAP kinase in vivo. *Cell*, **1993**, 75, 487-93	56.2	1086
19	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, 5292-6	11.5	187
18	Functional domains and phosphorylation of the orphan receptor Nur77. *Molecular Endocrinology*, **1993**, 7, 953-964		56
17	Regulation of Gene Expression by Serum Growth Factors **1992**, 115-162		8
16	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, 1815-9	11.5	318
15	Promoter function and structure of the growth factor-inducible immediate early gene cyr61. *Nucleic Acids Research*, **1991**, 19, 3261-7	20.1	88
14	Transcriptional activation by Nur77, a growth factor-inducible member of the steroid hormone receptor superfamily. *Molecular Endocrinology*, **1991**, 5, 854-9		71
13	Genes induced by serum growth factors. *Molecular Aspects of Cellular Regulation*, **1991**, 6, 257-293		63
12	Growth factors and membrane depolarization activate distinct programs of early response gene expression: dissociation of fos and jun induction. *Genes and Development*, **1989**, 3, 304-13	12.6	433
11	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, 8444-8	11.5	461
10	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, 1487-91	11.5	673
9	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, 7857-61	11.5	643
8	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, 1182-6	11.5	804
7	Phage lambda gene Q antiterminator recognizes RNA polymerase near the promoter and accelerates it through a pause site. *Cell*, **1985**, 42, 259-69	56.2	155

6	A potential stem-loop structure and the sequence CAAUCAA in the transcript are insufficient to signal rho-dependent transcription termination at lambda tR1. *Nucleic Acids Research*, **1984**, 12, 1287-99	20.1	14
5	Transcription terminates at lambda tR1 in three clusters. *Proceedings of the National Academy of Sciences of the United States of America*, **1982**, 79, 6171-5	11.5	77
4	Synthetic adaptors for cloning DNA. *Methods in Enzymology*, **1979**, 68, 98-109	1.7	57
3	Promoter Function of the Angiogenic Inducer Cyr61Gene in Transgenic Mice: Tissue Specificity, Inducibility During Wound Healing, and Role of the Serum Response Element		21
2	The Angiogenic Factor Cysteine-Rich 61 (CYR61, CCN1) Supports Vascular Smooth Muscle Cell Adhesion and Stimulates Chemotaxis through Integrin 61 and Cell Surface Heparan Sulfate Proteoglycans		41
1	CCN Proteins Are Distinct from, and Should Not Be Considered Members of, the Insulin-Like Growth Factor-Binding Protein Superfamily		2