

# Chia-yang Liu

## List of Publications by Year in descending order

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102  
papers

4,945  
citations

109321

35  
h-index

128289

60  
g-index

102  
all docs

102  
docs citations

102  
times ranked

4632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Inducible <i>Slc4a11</i> Knockout Triggers Corneal Edema Through Perturbation of Corneal Endothelial Pump. , 2021, 62, 28.		7
2	Shp2-mediated MAPK pathway regulates $\beta$ -Np63 in epithelium to promote corneal innervation and homeostasis. Laboratory Investigation, 2020, 100, 630-642.	3.7	8
3	Excess Transforming Growth Factor- $\beta$ Changed the Cell Properties of Corneal Epithelium and Stroma. , 2020, 61, 20.		4
4	Repressed Wnt Signaling Accelerates the Aging Process in Mouse Eyes. Journal of Ophthalmology, 2019, 2019, 1-11.	1.3	5
5	Aberrant expression of a stabilized $\beta$ -catenin mutant in keratocytes inhibits mouse corneal epithelial stratification. Scientific Reports, 2019, 9, 1919.	3.3	9
6	Sensory nerve supports epithelial stem cell function in healing of corneal epithelium in mice: the role of trigeminal nerve transient receptor potential vanilloid 4. Laboratory Investigation, 2019, 99, 210-230.	3.7	30
7	Suppression of neovascularization in corneal stroma in a TRPA1-null mouse. Experimental Eye Research, 2019, 181, 90-97.	2.6	14
8	RNA nanoparticle distribution and clearance in the eye after subconjunctival injection with and without thermosensitive hydrogels. Journal of Controlled Release, 2018, 270, 14-22.	9.9	31
9	Ectodysplasin A regulates epithelial barrier function through sonic hedgehog signalling pathway. Journal of Cellular and Molecular Medicine, 2018, 22, 230-240.	3.6	15
10	Lack of plakoglobin impairs integrity and wound healing in corneal epithelium in mice. Laboratory Investigation, 2018, 98, 1375-1383.	3.7	5
11	Impaired healing of cornea incision injury in a TRPV1-deficient mouse. Cell and Tissue Research, 2018, 374, 329-338.	2.9	20
12	Generation and Characterization of a Novel Mouse Line, <i>Keratocan-rtTA</i> ( <i>Kera<sup>sup</sup>RT</i> ), for Corneal Stroma and Tendon Research. , 2017, 58, 4800.		17
13	The role of corneal stroma: A potential nutritional source for the cornea. Journal of Nature and Science, 2017, 3, .	1.1	4
14	Mouse Corneal Stroma Fibroblast Primary Cell Culture. Bio-protocol, 2016, 6, .	0.4	4
15	Wakayama symposium: role of canonical Notch signaling in conjunctival goblet cell differentiation and dry eye syndrome. BMC Ophthalmology, 2015, 15, 152.	1.4	5
16	Loss of Corneal Epithelial Heparan Sulfate Leads to Corneal Degeneration and Impaired Wound Healing. , 2015, 56, 3004.		36
17	Corneal Epithelial Wound Healing. Progress in Molecular Biology and Translational Science, 2015, 134, 61-71.	1.7	89
18	Wnt/ $\beta$ -catenin signaling modulates corneal epithelium stratification via inhibition of Bmp4 during mouse development. Development (Cambridge), 2015, 142, 3383-3393.	2.5	89

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19	Perturbed meibomian gland and tarsal plate morphogenesis by excess TGF $\beta$ in eyelid stroma. <i>Developmental Biology</i> , 2015, 406, 147-157.	2.0	9
20	Disruption of eyelid and cornea morphogenesis by epithelial $\beta$ -catenin gain-of-function. <i>Molecular Vision</i> , 2015, 21, 793-803.	1.1	4
21	Knockdown of Zebrafish Blood Vessel Epicardial Substance Results in Incomplete Retinal Lamination. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	2
22	TGF $\beta$ signaling inhibits goblet cell differentiation via SPDEF in conjunctival epithelium. <i>Development (Cambridge)</i> , 2014, 141, 4628-4639.	2.5	40
23	Blocking Lymphocyte Trafficking with FTY720 Prevents Inflammation-Sensitized Hypoxic Ischemic Brain Injury in Newborns. <i>Journal of Neuroscience</i> , 2014, 34, 16467-16481.	3.6	69
24	Ocular Delivery of pRNA Nanoparticles: Distribution and Clearance After Subconjunctival Injection. <i>Pharmaceutical Research</i> , 2014, 31, 1046-1058.	3.5	46
25	Eyelid Closure in Embryogenesis Is Required for Ocular Adnexa Development. , 2014, 55, 7652.		34
26	Keratocytes Derived from Spheroid Culture of Corneal Stromal Cells Resemble Tissue Resident Keratocytes. <i>PLoS ONE</i> , 2014, 9, e112781.	2.5	11
27	Mastermind-like transcriptional co-activator-mediated Notch signaling is indispensable for maintaining conjunctival epithelial identity. <i>Development (Cambridge)</i> , 2013, 140, 594-605.	2.5	35
28	Targeted Overexpression of TGF $\beta$ in the Corneal Epithelium of Adult Transgenic Mice Induces Changes in Anterior Segment Morphology and Activates Noncanonical Wnt Signaling. , 2013, 54, 1829.		11
29	Dexamethasone Induces Cross-Linked Actin Networks in Trabecular Meshwork Cells Through Noncanonical Wnt Signaling. , 2013, 54, 6502.		55
30	Role of SH2-Containing Tyrosine Phosphatase Shp2 in Mouse Corneal Epithelial Stratification. , 2013, 54, 7933.		8
31	Lumican Binds ALK5 to Promote Epithelium Wound Healing. <i>PLoS ONE</i> , 2013, 8, e82730.	2.5	53
32	Blood Vessel Epicardial Substance (Bves) Regulates Epidermal Tight Junction Integrity through Atypical Protein Kinase C*. <i>Journal of Biological Chemistry</i> , 2012, 287, 39887-39897.	3.4	17
33	Wakayama Symposium: Notch-FoxL2-SMA Axis in Eyelid Levator Muscle Development and Congenital Blepharophimosis. <i>Ocular Surface</i> , 2012, 10, 221-223.	4.4	6
34	Bone marrow mesenchymal stem cells can differentiate and assume corneal keratocyte phenotype. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1114-1124.	3.6	80
35	Lumican Promotes Corneal Epithelial Wound Healing. <i>Methods in Molecular Biology</i> , 2012, 836, 285-290.	0.9	15
36	Crosstalk between TGF $\beta$ and MAPK Signaling during Corneal Wound Healing. , 2011, 52, 8208.		54

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37	Notch gain of function in mouse periocular mesenchyme downregulates FoxL2 and impairs eyelid levator muscle formation, leading to congenital blepharophimosis. <i>Journal of Cell Science</i> , 2011, 124, 2561-2572.	2.0	17
38	Corneal morphogenesis during development and wound healing. <i>Japanese Journal of Ophthalmology</i> , 2010, 54, 206-210.	1.9	3
39	Polymeric micelle gene delivery of bcl-xL via eye drop reduced corneal apoptosis following epithelial debridement. <i>Journal of Controlled Release</i> , 2010, 147, 76-83.	9.9	26
40	Cell Therapy of Congenital Corneal Diseases with Umbilical Mesenchymal Stem Cells: Lumican Null Mice. <i>PLoS ONE</i> , 2010, 5, e10707.	2.5	131
41	Chitosan Modification of Adenovirus to Modify Transfection Efficiency in Bovine Corneal Epithelial Cells. <i>PLoS ONE</i> , 2010, 5, e12085.	2.5	15
42	Monoallelic Expression of Krt12 Gene during Corneal-type Epithelium Differentiation of Limbal Stem Cells. , 2010, 51, 4562.		24
43	Lumican is required for neutrophil extravasation following corneal injury and wound healing. <i>Journal of Cell Science</i> , 2010, 123, 2987-2995.	2.0	58
44	Aberrant expression of a $\beta$ -catenin gain-of-function mutant induces hyperplastic transformation in the mouse cornea. <i>Journal of Cell Science</i> , 2010, 123, 1285-1294.	2.0	21
45	Regulation of corneal inflammation by neutrophil-dependent cleavage of keratan sulfate proteoglycans as a model for breakdown of the chemokine gradient. <i>Journal of Leukocyte Biology</i> , 2010, 88, 517-522.	3.3	25
46	Knockdown of Zebrafish Lumican Gene (zlum) Causes Scleral Thinning and Increased Size of Scleral Coats. <i>Journal of Biological Chemistry</i> , 2010, 285, 28141-28155.	3.4	42
47	Gene delivery to cornea. <i>Brain Research Bulletin</i> , 2010, 81, 256-261.	3.0	41
48	Fibrosis in the Anterior Segments of the Eye. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2010, 10, 331-335.	1.2	20
49	The development of meibomian glands in mice. <i>Molecular Vision</i> , 2010, 16, 1132-40.	1.1	48
50	Electrically assisted delivery of macromolecules into the corneal epithelium. <i>Experimental Eye Research</i> , 2009, 89, 934-941.	2.6	44
51	Evaluating Emotive Character Animations Created with Procedural Animation. <i>Lecture Notes in Computer Science</i> , 2009, , 308-315.	1.3	12
52	Signaling Pathways in Morphogenesis of Cornea and Eyelid. <i>Ocular Surface</i> , 2008, 6, 9-23.	4.4	20
53	Excess FGF-7 in Corneal Epithelium Causes Corneal Intraepithelial Neoplasia in Young Mice and Epithelium Hyperplasia in Adult Mice. <i>American Journal of Pathology</i> , 2008, 172, 638-649.	3.8	41
54	Morphological Differences between the Trabecular Meshworks of Zebrafish and Mammals. <i>Current Eye Research</i> , 2008, 33, 59-72.	1.5	25

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55	Molecular Analysis and Characterization of Zebrafish Keratocan (zKera) Gene. <i>Journal of Biological Chemistry</i> , 2008, 283, 506-517.	3.4	21
56	Verification of Expressiveness of Procedural Parameters for Generating Emotional Motions. <i>Lecture Notes in Computer Science</i> , 2008, , 514-515.	1.3	2
57	Promiscuous recombination of LoxP alleles during gametogenesis in cornea Cre driver mice. <i>Molecular Vision</i> , 2008, 14, 562-71.	1.1	18
58	Signaling pathways in morphogenesis of cornea and eyelid. <i>Ocular Surface</i> , 2008, 6, 9-23.	4.4	14
59	Keratocan and Lumican Regulate Neutrophil Infiltration and Corneal Clarity in Lipopolysaccharide-induced Keratitis by Direct Interaction with CXCL1. <i>Journal of Biological Chemistry</i> , 2007, 282, 35502-35509.	3.4	63
60	Eye drop delivery of nano-polymeric micelle formulated genes with cornea-specific promoters. <i>Journal of Gene Medicine</i> , 2007, 9, 956-966.	2.8	63
61	Targeted expression of a lumican transgene rescues corneal deficiencies in lumican-null mice. <i>Molecular Vision</i> , 2007, 13, 1212-8.	1.1	11
62	Focus on Molecules: Lumican. <i>Experimental Eye Research</i> , 2006, 82, 3-4.	2.6	73
63	Preservation and Expansion of the Primate Keratocyte Phenotype by Downregulating TGF- $\beta$ 2 Signaling in a Low-Calcium, Serum-Free Medium. , 2006, 47, 1918.		49
64	Pax6Overexpression Suppresses Cell Proliferation and Retards the Cell Cycle in Corneal Epithelial Cells. , 2006, 47, 2397.		49
65	Soluble Lumican Glycoprotein Purified from Human Amniotic Membrane Promotes Corneal Epithelial Wound Healing. , 2005, 46, 479.		63
66	The Heterogeneous Murine Corneal Stromal Cell Populations In Vitro. , 2005, 46, 4528.		13
67	Characterization of Tetracycline-Inducible BitransgenicKrt12rtTA+/tet-O-LacZMice. , 2005, 46, 1966.		37
68	Keratocan Expression of Murine Keratocytes Is Maintained on Amniotic Membrane by Down-regulating Transforming Growth Factor- $\beta$ 2 Signaling. <i>Journal of Biological Chemistry</i> , 2005, 280, 27085-27092.	3.4	48
69	Keratocan, a Cornea-specific Keratan Sulfate Proteoglycan, Is Regulatedby Lumican. <i>Journal of Biological Chemistry</i> , 2005, 280, 25541-25547.	3.4	128
70	Excess biglycan causes eyelid malformation by perturbing muscle development and TGF- $\beta$ 1 signaling. <i>Developmental Biology</i> , 2005, 277, 222-234.	2.0	42
71	Over expression of FGF7 enhances cell proliferation but fails to cause pathology in corneal epithelium of Kerap-rtTA/FGF7 bitransgenic mice. <i>Molecular Vision</i> , 2005, 11, 201-7.	1.1	10
72	CD-34 Expression by Cultured Human Keratocytes Is Downregulated during Myofibroblast Differentiation Induced by TGF- $\beta$ 1. , 2004, 45, 2985.		83

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73	In Vivo Gene Delivery and Visualization of Corneal Stromal Cells Using an Adenoviral Vector and Keratocyte-Specific Promoter. , 2004, 45, 2194.		31
74	Characterization of Corneal Pannus Removed from Patients with Total Limbal Stem Cell Deficiency. , 2004, 45, 2961.		64
75	Role of p38 MAP Kinase in Regulation of Cell Migration and Proliferation in Healing Corneal Epithelium. , 2004, 45, 100.		166
76	Calcium-Induced Abnormal Epidermal-like Differentiation in Cultures of Mouse Cornealâ€“Limbal Epithelial Cells. , 2004, 45, 3507.		55
77	Smad3 Signaling Is Required for Epithelial-Mesenchymal Transition of Lens Epithelium after Injury. American Journal of Pathology, 2004, 164, 651-663.	3.8	265
78	PITX2 Gain-of-Function in Rieger Syndrome Eye Model. American Journal of Pathology, 2004, 165, 1633-1641.	3.8	37
79	How Does Amniotic Membrane Work?. Ocular Surface, 2004, 2, 177-187.	4.4	261
80	A role for MEK kinase 1 in TGF- $\beta$ /activin-induced epithelium movement and embryonic eyelid closure. EMBO Journal, 2003, 22, 4443-4454.	7.8	161
81	The Use of Transgenic and Knock-out Mice in the Investigation of Ocular Surface Cell Biology. Ocular Surface, 2003, 1, 5-19.	4.4	17
82	Keratocan-deficient Mice Display Alterations in Corneal Structure. Journal of Biological Chemistry, 2003, 278, 21672-21677.	3.4	162
83	Human Keratocytes Cultured on Amniotic Membrane Stroma Preserve Morphology and Express Keratocan. , 2003, 44, 5136.		87
84	Role of Cys41 in the N-terminal domain of lumican in ex vivo collagen fibrillogenesis by cultured corneal stromal cells. Biochemical Journal, 2003, 369, 461-468.	3.7	15
85	Stromal Niche Controls the Plasticity of Limbal and Corneal Epithelial Differentiation in a Rabbit Model of Recombined Tissue. , 2003, 44, 5130.		109
86	Response of Lens Epithelial Cells to Injury: Role of Lumican in Epithelial-Mesenchymal Transition. , 2003, 44, 2094.		117
87	Altered KSPG expression by keratocytes following corneal injury. Molecular Vision, 2003, 9, 615-23.	1.1	43
88	Epithelial Repair. Cornea, 2002, 21, S23-S29.	1.7	45
89	Roles of lumican and keratocan on corneal transparency. Glycoconjugate Journal, 2002, 19, 275-285.	2.7	163
90	Epithelial Cell Culture. , 2002, , 131-140.		2

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91	Cornea. , 2002, , 927-941.		2
92	Cis-regulatory elements of the mouse Krt1.12 gene. <i>Molecular Vision</i> , 2002, 8, 94-101.	1.1	15
93	Altered collagen fibril formation in the sclera of lumican-deficient mice. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 1695-701.	3.3	43
94	TGF $\beta$ 2 in Corneal Morphogenesis during Mouse Embryonic Development. <i>Developmental Biology</i> , 2001, 240, 419-432.	2.0	153
95	General and Special Histopathology. <i>Research Methods for Mutant Mice Series</i> , 2001, , .	0.1	5
96	Role of Lumican in the Corneal Epithelium during Wound Healing. <i>Journal of Biological Chemistry</i> , 2000, 275, 2607-2612.	3.4	202
97	Analysis of the Human Lumican Gene Promoter. <i>Journal of Biological Chemistry</i> , 2000, 275, 40967-40973.	3.4	9
98	Identification of a 3.2 kb 5' flanking region of the murine keratocan gene that directs $\beta$ -galactosidase expression in the adult corneal stroma of transgenic mice. <i>Gene</i> , 2000, 250, 85-96.	2.2	36
99	The Cloning of Mouse Keratocan cDNA and Genomic DNA and the Characterization of Its Expression during Eye Development. <i>Journal of Biological Chemistry</i> , 1998, 273, 22584-22588.	3.4	86
100	Conjunctival epithelial cells do not transdifferentiate in organotypic cultures: expression of K12 keratin is restricted to corneal epithelium. <i>Current Eye Research</i> , 1994, 13, 765-778.	1.5	114
101	Developmental patterns of two $\alpha$ 1(X) collagen mRNA isoforms in mouse. <i>Developmental Dynamics</i> , 1993, 198, 150-157.	1.8	27
102	Cornea-specific expression of K12 keratin during mouse development. <i>Current Eye Research</i> , 1993, 12, 963-974.	1.5	112