James L Funderburgh

List of Publications by Year
in descending order

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84 papers	5,392 citations	81900 39 h-index	88630 70 g-index
84 all docs	84 docs citations	84 times ranked	3922 citing authors

#	Article	IF	Citations
1	Multipotent Stem Cells in Human Corneal Stroma. Stem Cells, 2005, 23, 1266-1275.	3.2	293
2	Keratocyte Phenotype Mediates Proteoglycan Structure. Journal of Biological Chemistry, 2003, 278, 45629-45637.	3.4	208
3	Role of Lumican in the Corneal Epithelium during Wound Healing. Journal of Biological Chemistry, 2000, 275, 2607-2612.	3.4	202
4	Human limbal biopsyâ€“derived stromal stem cells prevent corneal scarring. Science Translational Medicine, 2014, 6, 266ra172.	12.4	200
5	Molecular Cloning and Tissue Distribution of Keratocan. Journal of Biological Chemistry, 1996, 271, 9759-9763.	3.4	191
6	Stem Cell Therapy Restores Transparency to Defective Murine Corneas. Stem Cells, 2009, 27, 1635-1642.	3.2	186
7	Concise Review: Stem Cells in the Corneal Stroma. Stem Cells, 2012, 30, 1059-1063.	3.2	172
8	Mimecan, the 25-kDa Corneal Keratan Sulfate Proteoglycan, Is a Product of the Gene Producing Osteoglycin. Journal of Biological Chemistry, 1997, 272, 28089-28095.	3.4	165
9	Proteoglycan Expression during Transforming Growth Factor Î²-induced Keratocyte-Myofibroblast Transdifferentiation. Journal of Biological Chemistry, 2001, 276, 44173-44178.	3.4	146
10	Keratan Sulfate Biosynthesis. IUBMB Life, 2002, 54, 187-194.	3.4	140
11	The engineering of organized human corneal tissue through the spatial guidance of corneal stromal stem cells. Biomaterials, 2012, 33, 1343-1352.	11.4	135
12	Regenerating Eye Tissues to Preserve and Restore Vision. Cell Stem Cell, 2018, 22, 834-849.	11.1	131
13	Keratocan, a Cornea-specific Keratan Sulfate Proteoglycan, Is Regulatedby Lumican. Journal of Biological Chemistry, 2005, 280, 25541-25547.	3.4	128
14	Characterization and Expression of the Mouse Lumican Gene. Journal of Biological Chemistry, 1997, 272, 30306-30313.	3.4	115
15	Mesenchymal Stem Cells Reduce Corneal Fibrosis and Inflammation via Extracellular Vesicle-Mediated Delivery of miRNA. Stem Cells Translational Medicine, 2019, 8, 1192-1201.	3.3	113
16	Secretion and Organization of a Cornea-like Tissue In Vitro by Stem Cells from Human Corneal Stroma. , 2007, 48, 5038.		111
17	PAX6 expression identifies progenitor cells for corneal keratocytes. FASEB Journal, 2005, 19, 1371-1373.	0.5	110
18	Keratan sulfate proteoglycan during embryonic development of the chicken cornea. Developmental Biology, 1986, 116, 267-277.	2.0	108

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19	Multipotent Stem Cells from Trabecular Meshwork Become Phagocytic TM Cells. , 2012, 53, 1566.		107
20	InÂvitro 3D corneal tissue model with epithelium, stroma, and innervation. Biomaterials, 2017, 112, 1-9.	11.4	98
21	Corneal stromal bioequivalents secreted on patterned silk substrates. Biomaterials, 2014, 35, 3744-3755.	11.4	97
22	Fibroblast Growth Factor-2 Promotes Keratan Sulfate Proteoglycan Expression by Keratocytes in Vitro. Journal of Biological Chemistry, 2000, 275, 13918-13923.	3.4	96
23	Bioengineering Organized, Multilamellar Human Corneal Stromal Tissue by Growth Factor Supplementation on Highly Aligned Synthetic Substrates. Tissue Engineering - Part A, 2013, 19, 2063-2075.	3.1	94
24	Stem Cells in the Limbal Stroma. Ocular Surface, 2016, 14, 113-120.	4.4	94
25	Adipose-derived stem cells differentiate to keratocytes in vitro. Molecular Vision, 2010, 16, 2680-9.	1.1	89
26	The Cloning of Mouse Keratocan cDNA and Genomic DNA and the Characterization of Its Expression during Eye Development. Journal of Biological Chemistry, 1998, 273, 22584-22588.	3.4	86
27	Dental Pulp Stem Cells: A New Cellular Resource for Corneal Stromal Regeneration. Stem Cells Translational Medicine, 2015, 4, 276-285.	3.3	85
28	Focus on Molecules: Lumican. Experimental Eye Research, 2006, 82, 3-4.	2.6	73
29	Corneal stromal stem cells versus corneal fibroblasts in generating structurally appropriate corneal stromal tissue. Experimental Eye Research, 2014, 120, 71-81.	2.6	71
30	In Vitro Expansion of Corneal Endothelial Cells on Biomimetic Substrates. Scientific Reports, 2015, 5, 7955.	3.3	71
31	Corneal stromal stem cells reduce corneal scarring by mediating neutrophil infiltration after wounding. PLoS ONE, 2017, 12, e0171712.	2.5	71
32	Differentiation of Human Embryonic Stem Cells into Cells with Corneal Keratocyte Phenotype. PLoS ONE, 2013, 8, e56831.	2.5	65
33	A Role for Topographic Cues in the Organization of Collagenous Matrix by Corneal Fibroblasts and Stem Cells. PLoS ONE, 2014, 9, e86260.	2.5	61
34	Lumican is required for neutrophil extravasation following corneal injury and wound healing. Journal of Cell Science, 2010, 123, 2987-2995.	2.0	58
35	Nonâ€enzymatic glycation of type I collagen diminishes collagenâ€“proteoglycan binding and weakens cell adhesion. Journal of Cellular Biochemistry, 2008, 104, 1684-1698.	2.6	57
36	Quantitative Assessment of Ultrastructure and Light Scatter in Mouse Corneal Debridement Wounds. , 2012, 53, 2786.		55

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37	3D Functional Corneal Stromal Tissue Equivalent Based on Corneal Stromal Stem Cells and Multi-Layered Silk Film Architecture. PLoS ONE, 2017, 12, e0169504.	2.5	55
38	Human corneal stromal stem cells support limbal epithelial cells cultured on RAFT tissue equivalents. Scientific Reports, 2015, 5, 16186.	3.3	53
39	Functional reconstruction of rabbit corneal epithelium by human limbal cells cultured on amniotic membrane. Molecular Vision, 2003, 9, 635-43.	1.1	52
40	Synthesis of Corneal Keratan Sulfate Proteoglycans by Bovine Keratocytes in Vitro. Journal of Biological Chemistry, 1996, 271, 31431-31436.	3.4	48
41	Physical and biological properties of keratan sulphate proteoglycan. Biochemical Society Transactions, 1991, 19, 871-876.	3.4	46
42	Excess biglycan causes eyelid malformation by perturbing muscle development and TGF-Î± signaling. Developmental Biology, 2005, 277, 222-234.	2.0	42
43	Scaffold-free tissue engineering of functional corneal stromal tissue. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 59-69.	2.7	42
44	Predatory bacteria are nontoxic to the rabbit ocular surface. Scientific Reports, 2016, 6, 30987.	3.3	37
45	Keratocyte phenotype is enhanced in the absence of attachment to the substratum. Molecular Vision, 2008, 14, 308-17.	1.1	37
46	Compressed Collagen Enhances Stem Cell Therapy for Corneal Scarring. Stem Cells Translational Medicine, 2018, 7, 487-494.	3.3	34
47	Differentiation Capacity of Human Mesenchymal Stem Cells into Keratocyte Lineage. , 2019, 60, 3013.		34
48	DNA Cross-linking, Double-Strand Breaks, and Apoptosis in Corneal Endothelial Cells after a Single Exposure to Mitomycin C. , 2008, 49, 4837.		33
49	Differential Splicing and Alternative Polyadenylation Generate Multiple Mimecan mRNA Transcripts. Journal of Biological Chemistry, 1997, 272, 32551-32556.	3.4	32
50	Stem Cells in the Cornea. Progress in Molecular Biology and Translational Science, 2015, 134, 25-41.	1.7	32
51	Engineered Basement Membranes for Regenerating the Corneal Endothelium. Advanced Healthcare Materials, 2016, 5, 2942-2950.	7.6	32
52	Multi-layered silk film coculture system for human corneal epithelial and stromal stem cells. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 285-295.	2.7	32
53	Lgr5 + amacrine cells possess regenerative potential in the retina of adult mice. Aging Cell, 2015, 14, 635-643.	6.7	31
54	Loss of Alpha3(IV) Collagen Expression Associated with Corneal Keratocyte Activation. , 2007, 48, 627.		29

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55	Human Corneal Stromal Stem Cells Exhibit Survival Capacity Following Isolation From Stored Organâ€“Culture Corneas. , 2014, 55, 7583.		29
56	Hyaluronan Synthesis Mediates the Fibrotic Response of Keratocytes to Transforming Growth Factor Î². Journal of Biological Chemistry, 2010, 285, 32012-32019.	3.4	28
57	Impact on the Corneal Endothelium of Mitomycin C During Photorefractive Keratectomy. Journal of Refractive Surgery, 2009, 25, 894-897.	2.3	27
58	Monoclonal antibodies to rabbit corneal keratan sulfate proteoglycan. Current Eye Research, 1982, 2, 769-776.	1.5	24
59	Structure and Sequence of the Gene Encoding Human Keratocan. DNA Sequence, 1999, 10, 67-74.	0.7	22
60	Clinical and Histopathologic Changes in the Host Cornea After Epikeratoplasty for Keratoconus. American Journal of Ophthalmology, 1992, 114, 161-170.	3.3	21
61	Comparison of Proliferative Capacity of Genetically-Engineered Pig and Human Corneal Endothelial Cells. Ophthalmic Research, 2013, 49, 127-138.	1.9	21
62	Human Corneal Tissue Model for Nociceptive Assessments. Advanced Healthcare Materials, 2018, 7, e1800488.	7.6	21
63	Characterization of Porcine Corneal Endothelium for Xenotransplantation. Seminars in Ophthalmology, 2014, 29, 127-135.	1.6	20
64	Stromal Edema inKlf4Conditional Null Mouse Cornea Is Associated with Altered Collagen Fibril Organization and Reduced Proteoglycans. , 2009, 50, 4155.		19
65	Advanced Imaging and Tissue Engineering of the Human Limbal Epithelial Stem Cell Niche. Methods in Molecular Biology, 2015, 1235, 179-202.	0.9	19
66	A Rapid Transient Increase in Hyaluronan Synthase-2 mRNA Initiates Secretion of Hyaluronan by Corneal Keratocytes in Response to Transforming Growth Factor Î². Journal of Biological Chemistry, 2007, 282, 12475-12483.	3.4	18
67	Generation of Corneal Keratocytes from Human Embryonic Stem Cells. Methods in Molecular Biology, 2015, 1341, 285-294.	0.9	17
68	The Bovine Mimecan Gene. Journal of Biological Chemistry, 1999, 274, 18693-18701.	3.4	16
69	Ageâ€related dystrophic changes in corneal endothelium from <scp>DNA</scp> repairâ€“deficient mice. Aging Cell, 2013, 12, 1122-1131.	6.7	16
70	Cloning, characterization and tissue-specific expression of the gene encoding bovine keratocan, a corneal keratan sulfate proteoglycan. Gene, 1998, 218, 63-68.	2.2	15
71	Early wound healing of laser in situ keratomileusisâ€“like flaps after treatment with human corneal stromal stem cells. Journal of Cataract and Refractive Surgery, 2016, 42, 302-309.	1.5	13
72	Modeling Diabetic Corneal Neuropathy in a 3D In Vitro Cornea System. Scientific Reports, 2018, 8, 17294.	3.3	13

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73	The anti-scarring effect of corneal stromal stem cell therapy is mediated by transforming growth factor Î²3. Eye and Vision (London, England), 2020, 7, 52.	3.0	13
74	Developmental eye and neural tube defects in theeye blebs mouse. Developmental Dynamics, 2000, 219, 21-27.	1.8	10
75	Rapid Changes in Connexin-43 in Response to Genotoxic Stress Stabilize Cellâ€“Cell Communication in Corneal Endothelium. , 2011, 52, 5174.		9
76	Human corneal stromal stem cells express anti-fibrotic microRNA-29a and 381-5p â€“ A robust cell selection tool for stem cell therapy of corneal scarring. Journal of Advanced Research, 2023, 45, 141-155.	9.5	9
77	A novel transgenic mouse model for corneal scar visualization. Experimental Eye Research, 2020, 200, 108270.	2.6	6
78	SDS-Polyacrylamide Gel Electrophoretic Analysis of Proteins in the Presence of Guanidinium Hydrochloride. BioTechniques, 1996, 20, 376-378.	1.8	2
79	Biomaterials for refractive correction: corneal onlays and inlays. Science China Chemistry, 2014, 57, 501-509.	8.2	1
80	Clinical and Histopathologic Changes in the Host Cornea After Epikeratoplasty for Keratoconus: Reply. American Journal of Ophthalmology, 1993, 115, 122-123.	3.3	0
81	Culture of Human Corneal Stem Cells. , 0, , 249-280.		0
82	Corneal Stromal Stem Cell: Methods for Ex Vivo Expansion. Essentials in Ophthalmology, 2019, , 99-108.	0.1	0
83	Eye. Human Cell Culture, 2009, , 113-142.	0.1	0
84	In vivo engraftment into the cornea endothelium using extracellular matrix shrink-wrapped cells. Communications Materials, 2022, 3, .	6.9	0