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	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
2	In vivo engraftment into the cornea endothelium using extracellular matrix shrink-wrapped cells. Communications Materials, 2022, 3, .	6.9	0
3	A novel transgenic mouse model for corneal scar visualization. Experimental Eye Research, 2020, 200, 108270.	2.6	6
4	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
5	Differentiation Capacity of Human Mesenchymal Stem Cells into Keratocyte Lineage. , 2019, 60, 3013.		34
6	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
7	Corneal Stromal Stem Cell: Methods for Ex Vivo Expansion. Essentials in Ophthalmology, 2019, , 99-108.	0.1	0
8	Compressed Collagen Enhances Stem Cell Therapy for Corneal Scarring. Stem Cells Translational Medicine, 2018, 7, 487-494.	3.3	34
9	Scaffold-free tissue engineering of functional corneal stromal tissue. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 59-69.	2.7	42
10	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
11	Modeling Diabetic Corneal Neuropathy in a 3D In Vitro Cornea System. Scientific Reports, 2018, 8, 17294.	3.3	13
12	Regenerating Eye Tissues to Preserve and Restore Vision. Cell Stem Cell, 2018, 22, 834-849.	11.1	131
13	Human Corneal Tissue Model for Nociceptive Assessments. Advanced Healthcare Materials, 2018, 7, e1800488.	7.6	21
14	InÂvitro 3D corneal tissue model with epithelium, stroma, and innervation. Biomaterials, 2017, 112, 1-9.	11.4	98
15	Corneal stromal stem cells reduce corneal scarring by mediating neutrophil infiltration after wounding. PLoS ONE, 2017, 12, e0171712.	2.5	71
16	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
17	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
18	Engineered Basement Membranes for Regenerating the Corneal Endothelium. Advanced Healthcare Materials, 2016, 5, 2942-2950.	7.6	32

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19	Predatory bacteria are nontoxic to the rabbit ocular surface. Scientific Reports, 2016, 6, 30987.	3.3	37
20	Stem Cells in the Limbal Stroma. Ocular Surface, 2016, 14, 113-120.	4.4	94
21	Lgr5 + amacrine cells possess regenerative potential in the retina of adult mice. Aging Cell, 2015, 14, 635-643.	6.7	31
22	Human corneal stromal stem cells support limbal epithelial cells cultured on RAFT tissue equivalents. Scientific Reports, 2015, 5, 16186.	3.3	53
23	Stem Cells in the Cornea. Progress in Molecular Biology and Translational Science, 2015, 134, 25-41.	1.7	32
24	In Vitro Expansion of Corneal Endothelial Cells on Biomimetic Substrates. Scientific Reports, 2015, 5, 7955.	3.3	71
25	Dental Pulp Stem Cells: A New Cellular Resource for Corneal Stromal Regeneration. Stem Cells Translational Medicine, 2015, 4, 276-285.	3.3	85
26	Generation of Corneal Keratocytes from Human Embryonic Stem Cells. Methods in Molecular Biology, 2015, 1341, 285-294.	0.9	17
27	Advanced Imaging and Tissue Engineering of the Human Limbal Epithelial Stem Cell Niche. Methods in Molecular Biology, 2015, 1235, 179-202.	0.9	19
28	Characterization of Porcine Corneal Endothelium for Xenotransplantation. Seminars in Ophthalmology, 2014, 29, 127-135.	1.6	20
29	Human limbal biopsyâ€“derived stromal stem cells prevent corneal scarring. Science Translational Medicine, 2014, 6, 266ra172.	12.4	200
30	Corneal stromal bioequivalents secreted on patterned silk substrates. Biomaterials, 2014, 35, 3744-3755.	11.4	97
31	Corneal stromal stem cells versus corneal fibroblasts in generating structurally appropriate corneal stromal tissue. Experimental Eye Research, 2014, 120, 71-81.	2.6	71
32	Biomaterials for refractive correction: corneal onlays and inlays. Science China Chemistry, 2014, 57, 501-509.	8.2	1
33	Human Corneal Stromal Stem Cells Exhibit Survival Capacity Following Isolation From Stored Organâ€“Culture Corneas. , 2014, 55, 7583.		29
34	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
35	Comparison of Proliferative Capacity of Genetically-Engineered Pig and Human Corneal Endothelial Cells. Ophthalmic Research, 2013, 49, 127-138.	1.9	21
36	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

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37	Ageâ€related dystrophic changes in corneal endothelium from <scp>DNA</scp> repairâ€“deficient mice. Aging Cell, 2013, 12, 1122-1131.	6.7	16
38	Differentiation of Human Embryonic Stem Cells into Cells with Corneal Keratocyte Phenotype. PLoS ONE, 2013, 8, e56831.	2.5	65
39	Quantitative Assessment of Ultrastructure and Light Scatter in Mouse Corneal Debridement Wounds. , 2012, 53, 2786.		55
40	Multipotent Stem Cells from Trabecular Meshwork Become Phagocytic TM Cells. , 2012, 53, 1566.		107
41	Concise Review: Stem Cells in the Corneal Stroma. Stem Cells, 2012, 30, 1059-1063.	3.2	172
42	The engineering of organized human corneal tissue through the spatial guidance of corneal stromal stem cells. Biomaterials, 2012, 33, 1343-1352.	11.4	135
43	Rapid Changes in Connexin-43 in Response to Genotoxic Stress Stabilize Cellâ€“Cell Communication in Corneal Endothelium. , 2011, 52, 5174.		9
44	Lumican is required for neutrophil extravasation following corneal injury and wound healing. Journal of Cell Science, 2010, 123, 2987-2995.	2.0	58
45	Hyaluronan Synthesis Mediates the Fibrotic Response of Keratocytes to Transforming Growth Factor Î². Journal of Biological Chemistry, 2010, 285, 32012-32019.	3.4	28
46	Adipose-derived stem cells differentiate to keratocytes in vitro. Molecular Vision, 2010, 16, 2680-9.	1.1	89
47	Stromal Edema inKlf4Conditional Null Mouse Cornea Is Associated with Altered Collagen Fibril Organization and Reduced Proteoglycans. , 2009, 50, 4155.		19
48	Impact on the Corneal Endothelium of Mitomycin C During Photorefractive Keratectomy. Journal of Refractive Surgery, 2009, 25, 894-897.	2.3	27
49	Stem Cell Therapy Restores Transparency to Defective Murine Corneas. Stem Cells, 2009, 27, 1635-1642.	3.2	186
50	Eye. Human Cell Culture, 2009, , 113-142.	0.1	0
51	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
52	DNA Cross-linking, Double-Strand Breaks, and Apoptosis in Corneal Endothelial Cells after a Single Exposure to Mitomycin C. , 2008, 49, 4837.		33
53	Keratocyte phenotype is enhanced in the absence of attachment to the substratum. Molecular Vision, 2008, 14, 308-17.	1.1	37
54	Loss of Alpha3(IV) Collagen Expression Associated with Corneal Keratocyte Activation. , 2007, 48, 627.		29

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55	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
56	Secretion and Organization of a Cornea-like Tissue In Vitro by Stem Cells from Human Corneal Stroma. , 2007, 48, 5038.		111
57	Focus on Molecules: Lumican. Experimental Eye Research, 2006, 82, 3-4.	2.6	73
58	Multipotent Stem Cells in Human Corneal Stroma. Stem Cells, 2005, 23, 1266-1275.	3.2	293
59	PAX6 expression identifies progenitor cells for corneal keratocytes. FASEB Journal, 2005, 19, 1371-1373.	0.5	110
60	Keratocan, a Cornea-specific Keratan Sulfate Proteoglycan, Is Regulatedby Lumican. Journal of Biological Chemistry, 2005, 280, 25541-25547.	3.4	128
61	Excess biglycan causes eyelid malformation by perturbing muscle development and TGF-Î± signaling. Developmental Biology, 2005, 277, 222-234.	2.0	42
62	Keratocyte Phenotype Mediates Proteoglycan Structure. Journal of Biological Chemistry, 2003, 278, 45629-45637.	3.4	208
63	Functional reconstruction of rabbit corneal epithelium by human limbal cells cultured on amniotic membrane. Molecular Vision, 2003, 9, 635-43.	1.1	52
64	Keratan Sulfate Biosynthesis. IUBMB Life, 2002, 54, 187-194.	3.4	140
65	Proteoglycan Expression during Transforming Growth Factor Î²-induced Keratocyte-Myofibroblast Transdifferentiation. Journal of Biological Chemistry, 2001, 276, 44173-44178.	3.4	146
66	Developmental eye and neural tube defects in theeye blebs mouse. Developmental Dynamics, 2000, 219, 21-27.	1.8	10
67	Role of Lumican in the Corneal Epithelium during Wound Healing. Journal of Biological Chemistry, 2000, 275, 2607-2612.	3.4	202
68	Fibroblast Growth Factor-2 Promotes Keratan Sulfate Proteoglycan Expression by Keratocytes in Vitro. Journal of Biological Chemistry, 2000, 275, 13918-13923.	3.4	96
69	The Bovine Mimecan Gene. Journal of Biological Chemistry, 1999, 274, 18693-18701.	3.4	16
70	Structure and Sequence of the Gene Encoding Human Keratocan. DNA Sequence, 1999, 10, 67-74.	0.7	22
71	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
72	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

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73	Characterization and Expression of the Mouse Lumican Gene. Journal of Biological Chemistry, 1997, 272, 30306-30313.	3.4	115
74	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
75	Differential Splicing and Alternative Polyadenylation Generate Multiple Mimecan mRNA Transcripts. Journal of Biological Chemistry, 1997, 272, 32551-32556.	3.4	32
76	SDS-Polyacrylamide Gel Electrophoretic Analysis of Proteins in the Presence of Guanidinium Hydrochloride. BioTechniques, 1996, 20, 376-378.	1.8	2
77	Synthesis of Corneal Keratan Sulfate Proteoglycans by Bovine Keratocytes in Vitro. Journal of Biological Chemistry, 1996, 271, 31431-31436.	3.4	48
78	Molecular Cloning and Tissue Distribution of Keratocan. Journal of Biological Chemistry, 1996, 271, 9759-9763.	3.4	191
79	Clinical and Histopathologic Changes in the Host Cornea After Epikeratoplasty for Keratoconus: Reply. American Journal of Ophthalmology, 1993, 115, 122-123.	3.3	0
80	Clinical and Histopathologic Changes in the Host Cornea After Epikeratoplasty for Keratoconus. American Journal of Ophthalmology, 1992, 114, 161-170.	3.3	21
81	Physical and biological properties of keratan sulphate proteoglycan. Biochemical Society Transactions, 1991, 19, 871-876.	3.4	46
82	Keratan sulfate proteoglycan during embryonic development of the chicken cornea. Developmental Biology, 1986, 116, 267-277.	2.0	108
83	Monoclonal antibodies to rabbit corneal keratan sulfate proteoglycan. Current Eye Research, 1982, 2, 769-776.	1.5	24
84	Culture of Human Corneal Stem Cells. , 0, , 249-280.		0