

# Ted S Acott

## List of Publications by Citations

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53  
papers

3,096  
citations

31  
h-index

53  
g-index

53  
ext. papers

3,586  
ext. citations

4.5  
avg, IF

5.29  
L-index

#	Paper	IF	Citations
53	Extracellular matrix in the trabecular meshwork. <i>Experimental Eye Research</i> , <b>2008</b> , 86, 543-61	3.7	335
52	Elastic modulus determination of normal and glaucomatous human trabecular meshwork <b>2011</b> , 52, 2147-52		229
51	Extracellular matrix in the trabecular meshwork: intraocular pressure regulation and dysregulation in glaucoma. <i>Experimental Eye Research</i> , <b>2015</b> , 133, 112-25	3.7	200
50	Current understanding of conventional outflow dysfunction in glaucoma. <i>Current Opinion in Ophthalmology</i> , <b>2012</b> , 23, 135-43	5.1	180
49	Extracellular matrix turnover and outflow resistance. <i>Experimental Eye Research</i> , <b>2009</b> , 88, 676-82	3.7	171
48	Consensus recommendations for trabecular meshwork cell isolation, characterization and culture. <i>Experimental Eye Research</i> , <b>2018</b> , 171, 164-173	3.7	130
47	Changes in gene expression by trabecular meshwork cells in response to mechanical stretching. <i>Investigative Ophthalmology and Visual Science</i> , <b>2005</b> , 46, 2857-68		130
46	Trabecular repopulation by anterior trabecular meshwork cells after laser trabeculoplasty. <i>American Journal of Ophthalmology</i> , <b>1989</b> , 107, 1-6	4.9	110
45	Segmental versican expression in the trabecular meshwork and involvement in outflow facility <b>2011</b> , 52, 5049-57		96
44	Intraocular pressure homeostasis: maintaining balance in a high-pressure environment. <i>Journal of Ocular Pharmacology and Therapeutics</i> , <b>2014</b> , 30, 94-101	2.6	92
43	Growth factor and cytokine modulation of trabecular meshwork matrix metalloproteinase and TIMP expression. <i>Current Eye Research</i> , <b>1998</b> , 17, 276-85	2.9	89
42	Signaling pathways used in trabecular matrix metalloproteinase response to mechanical stretch. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 5174-81		87
41	Extracellular matrix gene alternative splicing by trabecular meshwork cells in response to mechanical stretching. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 1164-72		80
40	Induced pluripotent stem cells restore function in a human cell loss model of open-angle glaucoma. <i>Stem Cells</i> , <b>2015</b> , 33, 751-61	5.8	69
39	Synergism of TNF and IL-1 in the induction of matrix metalloproteinase-3 in trabecular meshwork. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 2634-43		67
38	Effects of modifiers of glycosaminoglycan biosynthesis on outflow facility in perfusion culture. <i>Investigative Ophthalmology and Visual Science</i> , <b>2008</b> , 49, 2495-505		66
37	Mapping molecular differences and extracellular matrix gene expression in segmental outflow pathways of the human ocular trabecular meshwork. <i>PLoS ONE</i> , <b>2015</b> , 10, e0122483	3.7	65

36	Early changes in matrix metalloproteinases and inhibitors after in vitro laser treatment to the trabecular meshwork. <i>Current Eye Research</i> , <b>1995</b> , 14, 537-44	2.9	63
35	Inhibition of bovine spermatozoa by caudal epididymal fluid: I. Studies of a sperm motility quiescence factor. <i>Biology of Reproduction</i> , <b>1984</b> , 30, 913-25	3.9	58
34	Specialized podosome- or invadopodia-like structures (PILS) for focal trabecular meshwork extracellular matrix turnover <b>2008</b> , 49, 5353-65		56
33	Involvement of the Erk-MAP kinase pathway in TNFalpha regulation of trabecular matrix metalloproteinases and TIMPs. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 164-9		54
32	The Trabecular Meshwork: A Basic Review of Form and Function <b>2014</b> , 2,		54
31	Differential effects of ADAMTS-1, -4, and -5 in the trabecular meshwork <b>2009</b> , 50, 5769-77		52
30	The Juxtacanalicular Region of Ocular Trabecular Meshwork: A Tissue with a Unique Extracellular Matrix and Specialized Function <b>2013</b> , 1, 3		51
29	Discrete expression and distribution pattern of TIMP-3 in the human retina and choroid. <i>Current Eye Research</i> , <b>1997</b> , 16, 102-10	2.9	48
28	Differential effects of caveolin-1 and -2 knockdown on aqueous outflow and altered extracellular matrix turnover in caveolin-silenced trabecular meshwork cells <b>2014</b> , 55, 5497-509		43
27	Estimating Human Trabecular Meshwork Stiffness by Numerical Modeling and Advanced OCT Imaging <b>2017</b> , 58, 4809-4817		42
26	IL-1 and TNF induction of matrix metalloproteinase-3 by c-Jun N-terminal kinase in trabecular meshwork. <i>Investigative Ophthalmology and Visual Science</i> , <b>2006</b> , 47, 1469-76		38
25	Tunneling Nanotubes are Novel Cellular Structures That Communicate Signals Between Trabecular Meshwork Cells <b>2017</b> , 58, 5298-5307		35
24	Glaucomatous cell derived matrices differentially modulate non-glaucomatous trabecular meshwork cellular behavior. <i>Acta Biomaterialia</i> , <b>2018</b> , 71, 444-459	10.8	35
23	Biomechanical Rigidity and Quantitative Proteomics Analysis of Segmental Regions of the Trabecular Meshwork at Physiologic and Elevated Pressures <b>2018</b> , 59, 246-259		35
22	Proteoglycan expression by human trabecular meshworks. <i>Current Eye Research</i> , <b>1997</b> , 16, 412-21	2.9	31
21	Pressure-induced expression changes in segmental flow regions of the human trabecular meshwork. <i>Experimental Eye Research</i> , <b>2017</b> , 158, 67-72	3.7	24
20	Inhibition of hyaluronan synthesis reduces versican and fibronectin levels in trabecular meshwork cells. <i>PLoS ONE</i> , <b>2012</b> , 7, e48523	3.7	24
19	Expression profile and genome location of cDNA clones from an infant human trabecular meshwork cell library. <i>Investigative Ophthalmology and Visual Science</i> , <b>2002</b> , 43, 3698-704		21

18	The effects of tenascin C knockdown on trabecular meshwork outflow resistance <b>2013</b> , 54, 5613-23		19
17	p38 MAP kinase pathway and stromelysin regulation in trabecular meshwork cells. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 3126-37		17
16	Normal and glaucomatous outflow regulation. <i>Progress in Retinal and Eye Research</i> , <b>2021</b> , 82, 100897	20.5	17
15	Perturbation of hyaluronan synthesis in the trabecular meshwork and the effects on outflow facility <b>2012</b> , 53, 4616-25		16
14	Effects of induction and inhibition of matrix cross-linking on remodeling of the aqueous outflow resistance by ocular trabecular meshwork cells. <i>Scientific Reports</i> , <b>2016</b> , 6, 30505	4.9	15
13	Molecular chaperone function for myocilin <b>2011</b> , 52, 7548-55		12
12	Glycosaminoglycans of human trabecular meshwork in perfusion organ culture. <i>Current Eye Research</i> , <b>1990</b> , 9, 363-9	2.9	11
11	Elevated pressure influences relative distribution of segmental regions of the trabecular meshwork. <i>Experimental Eye Research</i> , <b>2020</b> , 190, 107888	3.7	11
10	Prospects for genetic intervention in primary open-angle glaucoma. <i>Drugs and Aging</i> , <b>1998</b> , 13, 333-40	4.7	6
9	Isolation and Characterization of primary human trabecular meshwork cells from segmental flow regions: New tools for understanding segmental flow. <i>Experimental Eye Research</i> , <b>2020</b> , 197, 108046	3.7	4
8	ZO-1 associates with $\beta$ integrin and connexin43 in trabecular meshwork and Schlemm's canal cells. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , <b>2020</b> , 12, 1-10	3.4	3
7	Ionic Modulation of Flow Resistance in an Immobilized Proteoglycan Model of the Trabecular Meshwork. <i>Journal of Glaucoma</i> , <b>1993</b> , 2, 183-192	2.1	2
6	Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. <b>2022</b> , 63, 12		1
5	Gap junction connexin43 is a key element in mediating phagocytosis activity in human trabecular meshwork cells. <i>International Journal of Physiology, Pathophysiology and Pharmacology</i> , <b>2020</b> , 12, 25-31	3.4	1
4	Valve-Like Outflow System Behavior With Motion Slowing in Glaucoma Eyes: Findings Using a Minimally Invasive Glaucoma Surgery-MIGS-Like Platform and Optical Coherence Tomography Imaging. <i>Frontiers in Medicine</i> , <b>2022</b> , 9, 815866	4.9	1
3	Endogenous expression of Notch pathway molecules in human trabecular meshwork cells. <i>Experimental Eye Research</i> , <b>2022</b> , 216, 108935	3.7	0
2	Modeling the biomechanics of the conventional aqueous outflow pathway microstructure in the human eye. <i>Computer Methods and Programs in Biomedicine</i> , <b>2022</b> , 221, 106922	6.9	0
1	Antagonism of Retinol-Induced RNA Synthesis: Assessment of Retinoid Toxicity in Cultured Retinal Pigment Epithelium. <i>Cutaneous and Ocular Toxicology</i> , <b>1990</b> , 9, 251-263		

