

# Neville A Mcbrien

## List of Publications by Year in descending order

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40  
papers

2,891  
citations

257450

24  
h-index

501196

28  
g-index

40  
all docs

40  
docs citations

40  
times ranked

1797  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced Scleral TIMP-2 Expression Is Associated With Myopia Development: TIMP-2 Supplementation Stabilizes Scleral Biomarkers of Myopia and Limits Myopia Development. , 2017, 58, 1971.		34
2	Regulation of scleral metabolism in myopia and the role of transforming growth factor-beta. Experimental Eye Research, 2013, 114, 128-140.	2.6	98
3	How does atropine exert its anti-myopia effects?. Ophthalmic and Physiological Optics, 2013, 33, 373-378.	2.0	91
4	Eyes in Various Species Can Shorten to Compensate for Myopic Defocus. , 2013, 54, 2634.		38
5	Muscarinic Antagonist Control of Myopia: Evidence for M <sub>4</sub> and M <sub>1</sub> Receptor-Based Pathways in the Inhibition of Experimentally-Induced Axial Myopia in the Tree Shrew. , 2012, 53, 5827.		56
6	The Effect of Daily Transient +4 D Positive Lens Wear on the Inhibition of Myopia in the Tree Shrew. , 2012, 53, 1593.		20
7	The M4 muscarinic antagonist MT-03 inhibits myopia in chick: evidence for site of action. Ophthalmic and Physiological Optics, 2011, 31, 529-539.	2.0	51
8	Retinal thinning in tree shrews with induced high myopia: Optical coherence tomography and histological assessment. Vision Research, 2011, 51, 376-385.	1.4	34
9	The Effect of Pirenzepine on Positive- and Negative-Lens-Induced Refractive Error and Ocular Growth in Chicks. , 2010, 51, 5438.		6
10	Inhibition of Matrix Metalloproteinase Activity in the Chick Sclera and Its Effect on Myopia Development. , 2010, 51, 2865.		11
11	Relationship of the Optical Coherence Tomography Signal to Underlying Retinal Histology in the Tree Shrew ( <i>Tupaia belangeri</i> ). , 2009, 50, 414.		38
12	Biomechanics of the Sclera in Myopia: Extracellular and Cellular Factors. Optometry and Vision Science, 2009, 86, E23-E30.	1.2	227
13	Regulation of Scleral Cell Contraction by Transforming Growth Factor- $\beta^2$ and Stress. Journal of Biological Chemistry, 2009, 284, 2072-2079.	3.4	46
14	Effects of a Head-Mounted Display on the Oculomotor System of Children. Optometry and Vision Science, 2009, 86, 845-856.	1.2	21
15	The effect of positive lens defocus on ocular growth and emmetropization in the tree shrew. Journal of Vision, 2008, 8, 1.	0.3	88
16	Expression of Collagen-Binding Integrin Receptors in the Mammalian Sclera and Their Regulation during the Development of Myopia. , 2006, 47, 4674.		60
17	Altered Visual Sensitivity in Axial High Myopia: A Local Postreceptor Phenomenon?. , 2006, 47, 3695.		42
18	The Development of a Symptom Questionnaire for Assessing Virtual Reality Viewing Using a Head-Mounted Display. Optometry and Vision Science, 2005, 82, 168-176.	1.2	149

#	ARTICLE	IF	CITATIONS
19	Isoform-specific Changes in Scleral Transforming Growth Factor- $\beta$ 2 Expression and the Regulation of Collagen Synthesis during Myopia Progression. <i>Journal of Biological Chemistry</i> , 2004, 279, 18121-18126.	3.4	124
20	Pressure-Induced Changes in Axial Eye Length of Chick and Tree Shrew: Significance of Myofibroblasts in the Sclera. , 2004, 45, 758.		62
21	Expression and cDNA Sequence of Matrix Metalloproteinase-2 (MMP-2) in a Mammalian Model of Human Disease Processes: <i>Tupaia belangeri</i> . <i>DNA Sequence</i> , 2004, 15, 332-337.	0.7	6
22	Muscarinic antagonist control of myopia: a molecular search for the M1 receptor in chick. <i>Molecular Vision</i> , 2004, 10, 787-93.	1.1	24
23	Role of the sclera in the development and pathological complications of myopia. <i>Progress in Retinal and Eye Research</i> , 2003, 22, 307-338.	15.5	462
24	Collagen Gene Expression and the Altered Accumulation of Scleral Collagen during the Development of High Myopia. <i>Journal of Biological Chemistry</i> , 2003, 278, 16587-16594.	3.4	166
25	Pirenzepine Affects Scleral Metabolic Changes in Myopia through a Non-toxic Mechanism. <i>Experimental Eye Research</i> , 2002, 74, 103-111.	2.6	30
26	RETINOSCLERAL CONTROL OF SCLERAL REMODELLING IN REFRACTIVE DEVELOPMENT: A ROLE FOR ENDOGENOUS FGF-2?. <i>Cytokine</i> , 2002, 18, 344-348.	3.2	42
27	Glycosaminoglycan synthesis in the separate layers of the chick sclera during myopic eye growth: Comparison with mammals. <i>Current Eye Research</i> , 2001, 23, 179-184.	1.5	21
28	The role of visual information in the control of scleral matrix biology in myopia. <i>Current Eye Research</i> , 2001, 23, 313-319.	1.5	34
29	High-Resolution Semi-Quantitative Real-Time PCR without the Use of a Standard Curve. <i>BioTechniques</i> , 2001, 31, 502-508.	1.8	79
30	Retinal acetylcholine content in normal and myopic eyes: A role in ocular growth control?. <i>Visual Neuroscience</i> , 2001, 18, 571-580.	1.0	45
31	Inhibition of myopia development in chicks using himbacine: a role for M4 receptors?. <i>NeuroReport</i> , 2001, 12, 2453-2456.	1.2	39
32	The role of muscarinic antagonists in the control of eye growth and myopia. , 2000, , 183-192.		0
33	Optical Correction of Induced Axial Myopia in the Tree Shrew: Implications for Emmetropization. <i>Optometry and Vision Science</i> , 1999, 76, 419-427.	1.2	43
34	Modulation of Scleral DNA Synthesis in Development of and Recovery from Induced Axial Myopia in the Tree Shrew. <i>Experimental Eye Research</i> , 1999, 68, 155-163.	2.6	56
35	Structural and Metabolic Changes Associated with Recovery from Experimentally Induced Myopia: A Brief Review. , 1998, , 278-284.		0
36	The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks. <i>Vision Research</i> , 1995, 35, 1141-1152.	1.4	71

#	ARTICLE	IF	CITATIONS
37	Lid-suture myopia in tree shrews with retinal ganglion cell blockade. <i>Visual Neuroscience</i> , 1994, 11, 143-153.	1.0	98
38	Prevention of collagen crosslinking increases form-deprivation myopia in tree shrew. <i>Experimental Eye Research</i> , 1994, 59, 475-486.	2.6	84
39	Normal development of refractive state and ocular component dimensions in the tree shrew ( <i>Tupaia</i> ) Tj ETQq1 1 0.784314 rgBT /Over to	1.4	150
40	The development of experimental myopia and ocular component dimensions in monocularly lid-sutured tree shrews ( <i>Tupaia belangeri</i> ). <i>Vision Research</i> , 1992, 32, 843-852.	1.4	145