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	Role of the sclera in the development and pathological complications of myopia. Progress in Retinal and Eye Research, 2003, 22, 307-338.	15.5	462
2	Biomechanics of the Sclera in Myopia: Extracellular and Cellular Factors. Optometry and Vision Science, 2009, 86, E23-E30.	1.2	227
3	Collagen Gene Expression and the Altered Accumulation of Scleral Collagen during the Development of High Myopia. Journal of Biological Chemistry, 2003, 278, 16587-16594.	3.4	166
4	Normal development of refractive state and ocular component dimensions in the tree shrew (Tupaia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	150
5	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
6	The development of experimental myopia and ocular component dimensions in monocularly lid-sutured tree shrews (Tupaia belangeri). Vision Research, 1992, 32, 843-852.	1.4	145
7	Isoform-specific Changes in Scleral Transforming Growth Factor-Î² Expression and the Regulation of Collagen Synthesis during Myopia Progression. Journal of Biological Chemistry, 2004, 279, 18121-18126.	3.4	124
8	Lid-suture myopia in tree shrews with retinal ganglion cell blockade. Visual Neuroscience, 1994, 11, 143-153.	1.0	98
9	Regulation of scleral metabolism in myopia and the role of transforming growth factor-beta. Experimental Eye Research, 2013, 114, 128-140.	2.6	98
10	How does atropine exert its antiâ€myopia effects?. Ophthalmic and Physiological Optics, 2013, 33, 373-378.	2.0	91
11	The effect of positive lens defocus on ocular growth and emmetropization in the tree shrew. Journal of Vision, 2008, 8, 1.	0.3	88
12	Prevention of collagen crosslinking increases form-deprivation myopia in tree shrew. Experimental Eye Research, 1994, 59, 475-486.	2.6	84
13	High-Resolution Semi-Quantitative Real-Time PCR without the Use of a Standard Curve. BioTechniques, 2001, 31, 502-508.	1.8	79
14	The effects of blockade of retinal cell action potentials on ocular growth, emmetropization and form deprivation myopia in young chicks. Vision Research, 1995, 35, 1141-1152.	1.4	71
15	Pressure-Induced Changes in Axial Eye Length of Chick and Tree Shrew: Significance of Myofibroblasts in the Sclera. , 2004, 45, 758.		62
16	Expression of Collagen-Binding Integrin Receptors in the Mammalian Sclera and Their Regulation during the Development of Myopia. , 2006, 47, 4674.		60
17	Modulation of Scleral DNA Synthesis in Development of and Recovery from Induced Axial Myopia in the Tree Shrew. Experimental Eye Research, 1999, 68, 155-163.	2.6	56
18	Muscarinic Antagonist Control of Myopia: Evidence for M₄and M₁Receptor-Based Pathways in the Inhibition of Experimentally-Induced Axial Myopia in the Tree Shrew. , 2012, 53, 5827.		56

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19	The M4 muscarinic antagonist MTâ€3 inhibits myopia in chick: evidence for site of action. Ophthalmic and Physiological Optics, 2011, 31, 529-539.	2.0	51
20	Regulation of Scleral Cell Contraction by Transforming Growth Factor-Î² and Stress. Journal of Biological Chemistry, 2009, 284, 2072-2079.	3.4	46
21	Retinal acetylcholine content in normal and myopic eyes: A role in ocular growth control?. Visual Neuroscience, 2001, 18, 571-580.	1.0	45
22	Optical Correction of Induced Axial Myopia in the Tree Shrew: Implications for Emmetropization. Optometry and Vision Science, 1999, 76, 419-427.	1.2	43
23	RETINOSCLERAL CONTROL OF SCLERAL REMODELLING IN REFRACTIVE DEVELOPMENT: A ROLE FOR ENDOGENOUS FGF-2?. Cytokine, 2002, 18, 344-348.	3.2	42
24	Altered Visual Sensitivity in Axial High Myopia: A Local Postreceptoral Phenomenon?. , 2006, 47, 3695.		42
25	Inhibition of myopia development in chicks using himbacine: a role for M4 receptors?. NeuroReport, 2001, 12, 2453-2456.	1.2	39
26	Relationship of the Optical Coherence Tomography Signal to Underlying Retinal Histology in the Tree Shrew (Tupaia belangeri). , 2009, 50, 414.		38
27	Eyes in Various Species Can Shorten to Compensate for Myopic Defocus. , 2013, 54, 2634.		38
28	The role of visual information in the control of scleral matrix biology in myopia. Current Eye Research, 2001, 23, 313-319.	1.5	34
29	Retinal thinning in tree shrews with induced high myopia: Optical coherence tomography and histological assessment. Vision Research, 2011, 51, 376-385.	1.4	34
30	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
31	Pirenzepine Affects Scleral Metabolic Changes in Myopia through a Non-toxic Mechanism. Experimental Eye Research, 2002, 74, 103-111.	2.6	30
32	Muscarinic antagonist control of myopia: a molecular search for the M1 receptor in chick. Molecular Vision, 2004, 10, 787-93.	1.1	24
33	Glycosaminoglycan synthesis in the separate layers of the chick sclera during myopic eye growth: Comparison with mammals. Current Eye Research, 2001, 23, 179-184.	1.5	21
34	Effects of a Head-Mounted Display on the Oculomotor System of Children. Optometry and Vision Science, 2009, 86, 845-856.	1.2	21
35	The Effect of Daily Transient +4 D Positive Lens Wear on the Inhibition of Myopia in the Tree Shrew. , 2012, 53, 1593.		20
36	Inhibition of Matrix Metalloproteinase Activity in the Chick Sclera and Its Effect on Myopia Development. , 2010, 51, 2865.		11

#	Article	IF	Citations
37	Expression and cDNA Sequence of Matrix Metalloproteinase-2 (MMP-2) in a Mammalian Model of Human Disease Processes: Tupaia belangeri. DNA Sequence, 2004, 15, 332-337.	0.7	6
38	The Effect of Pirenzepine on Positive- and Negative-Lensâ€“Induced Refractive Error and Ocular Growth in Chicks. , 2010, 51, 5438.		6
39	The role of muscarinic antagonists in the control of eye growth and myopia. , 2000, , 183-192.		0
40	Structural and Metabolic Changes Associated with Recovery from Experimentally Induced Myopia: A Brief Review. , 1998, , 278-284.		0