

Queensland Eye Institute

Research Publications - 2016

- (1) Li F.J., Nili E., Lau C., Richardson N.A., Walshe J., Barnett N.L., Cronin B.G., Hirst L.W., Schwab I.R., Chirila T.V. and Harkin D.G.: Evaluation of the AlgerBrush II rotating burr as a tool for inducing ocular surface failure in the New Zealand White rabbit. *Exp. Eye Res.*, 147: 1-11, 2016.
- (2) Chirila T.V. and Harkin D.G.: An introduction to ophthalmic biomaterials and their role in tissue engineering and regenerative medicine. Chapter 1 in *Biomaterials and Regenerative Medicine in Ophthalmology*, 2nd edition, pp. 1-14, T.V. Chirila and D.G. Harkin, editors. Elsevier, Amsterdam, 2016. [ISBN: 978-0-08-100147-9].
- (3) Chirila T.V., Suzuki S., Hirst L.W. and Harkin D.G.: Reconstruction of the ocular surface using biomaterial templates. Chapter in *Biomaterials and Regenerative Medicine in Ophthalmology*, 2nd edition, pp. 179-218, T.V. Chirila and D.G. Harkin, editors. Elsevier, Amsterdam, 2016. [ISBN: 978-0-08-100147-9].
- (4) Shadforth A.M.A., Chirila T.V., Harkin D.G., Kwan A.S.L. and Chen F.K.: Biomaterial templates for the culture and transplantation of retinal pigment epithelial cells: a critical review. Chapter in *Biomaterials and Regenerative Medicine in Ophthalmology*, 2nd edition, pp. 263-289, T.V. Chirila and D.G. Harkin, editors. Elsevier, Amsterdam, 2016. [ISBN: 978-0-08-100147-9].
- (5) Chirila T.V., Suzuki S. and McKirdy N.C.: Further development of silk sericin as a biomaterial: comparative investigation of the procedures for its isolation from *Bombyx mori* silk cocoons. *Prog. Biomater.*, 5: 135-145, 2016.
- (6) Chirila T.V. and Suzuki S.: The intraocular lens. Chapter B7 (pp. 103-113) in *Handbook of Biomaterial Properties*, 2nd edition, W. Murphy, J. Black and G. Hastings, editors. Springer-Verlag, New York, 2016. [ISBN: 978-1-4939-3303-7].
- (7) Chirila T.V. and Hong Y.: The vitreous humor. Chapter C2 (pp. 125-134) in *Handbook of Biomaterial Properties*, 2nd edition, W. Murphy, J. Black and G. Hastings, editors. Springer-Verlag, New York, 2016. [ISBN: 978-1-4939-3303-7].
- (8) Chirila T.V. and Suzuki S.: The cornea. Chapter C3 (pp. 135-148) in *Handbook of Biomaterial Properties*, 2nd edition, W. Murphy, J. Black and G. Hastings, editors. Springer-Verlag, New York, 2016. [ISBN: 978-1-4939-3303-7].
- (9) Suzuki S., Chirila T.V. and Edwards G.A.: Characterization of *Bombyx mori* and *Antheraea pernyi* silk fibroins and their blends as potential biomaterials. *Prog. Biomater.*, 5: 193-198, 2016.
- (10) Hogerheyde T.A., Suzuki S., Walshe J., Bray L.J., Stephenson S.A., Harkin D.G. and Richardson N.A.: Optimization of corneal epithelial progenitor cell growth on *Bombyx mori* silk fibroin membranes. *Stem Cells Int.*, 2016: 8310127 [11 pages].

- (11) Harkin D.G., Sutherland A.J., Bray L.J., Foyn L., Li F.J. and Cronin B.G.: The use of mesenchymal stromal cells in the treatment of diseases of the cornea. In *The Biology and Therapeutic Application of Mesenchymal Cells*, K. Atkinson, editor; Wiley-Blackwell, 2016, Ch. 36, pp. 524-543.
- (12) Natoli R., Jiao H., Barnett N.L., Fernando N., Valter K., Provis J.M. and Rutar M.: A model of progressive photooxidative degeneration and inflammation in the pigmented C57BL/6J mouse retina. *Exp. Eye Res.*, 147: 114-127, 2016.
- (13) Rayner C.L., Bottle S.E., Gole G.A., Ward M.S. and Barnett N.L.: Real-time quantification of oxidative stress and the protective effect of nitroxide antioxidants. *Neurochem. Int.*, 92: 1-12, 2016.
- (14) Lee A., Stevens M.G., Anderson A.R., Kwan A., Balcar V.J. and Pow D.: A novel splice variant of the Excitatory Amino Acid Transporter 5: cloning, immunolocalization and functional characterization of hEAAT5v in human retina. *Neurochem. Int.*, 101: 76-82, 2016.
- (15) Zhang Y., Li S-J., Li I., He M., Thomas R. and Wang N.: Dynamic iris changes as a risk factor in primary angle closure disease. *Invest. Ophthalmol. Vis. Sci.*, 57: 218-226, 2016.
- (16) Adhikari P., Zele A.J., Thomas R. and Feigl B.: Quadrant field pupillometry detects melanopsin dysfunction in glaucoma suspects and early glaucoma. *Sci. Rep.*, 6: 33373, 2016.
- (17) Thomas R., Walland M., Thomas A. and Mengersen K.: Lowering of intraocular pressure following phacoemulsification in primary open angle closure glaucoma: a Bayesian analysis. *Asia Pacific J. Ophthalmol.*, 5: 79-84, 2016.
- (18) Thomas R., Thomas A., Walland M. and Mengersen K.: The association between location of laser iridotomy and frequency of visual symptoms: a Bayesian learning analysis. *Clin. Exp. Ophthalmol.*, 44: 215-217, 2016.
- (19) Walland M. and Thomas R.: Has the iridotomy worked? What does the anterior segment OCT tell us? *Clin. Exp. Ophthalmol.*, 44: 157-158, 2016.
- (20) Wood J.M., Black A.A., Mallon K., Thomas R. and Owsley C.: Glaucoma and driving: on-road driving characteristics. *PLoS ONE*, 11(7): e0158318, 2016.