

DAFTAR PUSTAKA

- Allaj V, Guo C, Nie D. 2013. Non-steroid anti-inflammatory drugs, prostaglandins, and cancer. *Cell & Bioscience*, 3:8
- Andjelic S, Draslar S, Lumi X, Yan X, Graw J, Facsko A, Hawlina M, Petrovski G. 2015. Morphological and proliferative studies on ex vivo cultured human anterior lens epithelial cells – relevance to capsular opacification. *Acta Ophthalmologica*, 93:e499-e506.
- Andjelic S. 2017. The role of lens epithelial cells in the development of the posterior capsule opacification and in the lens regeneration after congenital cataract surgery. *Zdrav Vestn*, 86: 236-43.
- Awasthi N, Guo S, Wagner BJ. Posterior capsular opacification: a problem reduced but not yet eradicated. *Arch Ophthalmol*. 2009;127(4):555-562
- Bao XL, Song H, Chen Z, Tang X. Wnt3a promotes epithelial-mesenchymal transition, migration, and proliferation of lens epithelial cells. *Mol Vis*. 2012;18:1983-1990.
- Barequet IS, Jaffe TW, Sachs D. 2002. Effects on Posterior Capsule Opacification of Topical Diclofenac Sodium vs Dexamethasone Phosphate After Cataract Surgery. *Ann Ophthalmology*. 34(2): 142-147
- Batur M., Gul A., Seven E., Can E., Yasar T. 2016. Posterior Capsular Opacification in Prescholl- and School-Age Patients after Pediatric Cataract Surgery without Posterior Capsulotomy. *Turk J Ophthalmology*, 46:205-208.
- Chandler HL. 2006. Epithelial-Mesenchymal Transition in The Anterior Segment of The Eye. The Ohio State University
- Chen X, Xiao W, Chen W, Luo L, Ye S, Liu Y. 2013. The epigenetic modifier trichostatin A, a histone deacetylase inhibitor, suppresses proliferation and epithelial-mesenchymal transition of lens epithelial cells. *Cell Death Dis*. 4:e884
- Chen CZ dan Raghunath M. 2009. Focus on collagen: in vitro systems to study fibrogenesis and antifibrosis – state of the art. *Fibrogenesis & Tissue Repair*. 2(7):1-10.
- Dawes LJ, Sleeman MA, Anderson IK, Reddan JR, Wormstone IM. 2009. TGFbeta/Smad4-dependent and -independent regulation of human lens epithelial cells. *Invest Ophthalmol Vis Sci*;50(11):5318-5327.
- De Jongh RU, Wederell E, Lovicu FJ, McAvoy JW. 2005. Transforming Growth Factor- β -Induced Epithelial-Mesenchymal Transition in the Lens: A Model for Cataract Formation. *Cells Tissue Organs*; 179:43-55

- Eldred JA., Dawes LJ., Wormstone IM. 2011. The lens as a model for fibrotic disease. *Philosophical Trans of the Royal Society B*, 366: 1301-1319.
- Eldred JA., Hodgkinson LM., Dawes LJ., Wormstone IM. 2012. MmP2 Activity is Critical for TGF- β 2-Induced Matrix Contraction. *Invest Ophthalmol Vis Sci*. 2012; 53:4085-4098)
- Eunjoo H. Lee and Choun-Ki Joo. 1999. Role of Transforming Growth Factor- β in Transdifferentiation and Fibrosis of Lens Epithelial Cells. *Invest Ophthalmol Vis Sci*. 1999;40:2025–2032
- Geeraets WJ. 1972. Observations of Lens Epithelium in Cell Cultures. *MCV Quartyerly*. 8(4): 264-273.
- Han C, Demetris AJ, Liu Y, Shelhamers JH, Wu T. 2004. Transforming Growth Factor- β (TGF- β)Activates Cytosolic Phospholipase A $_{2\alpha}$ (cPLA $_{2\alpha}$)-mediated Prostaglandin E $_2$ /EP1 and Peroxisome Proliferator-activated Receptor- γ (PPAR- γ)/Smad Signaling Pathways in Human Liver Cancer Cells.. *The Journal of Biological Chemistry*. 279(43):44344-44354.
- Ibaraki N. 1998. Human Lens Epithelial Cell Culture. Methods in molecular biology. Vol 188:1-5
- Iyengar L, Patkunanathan B, McAvoy JW, Lovicu FJ. Growth factors involved in aqueous humour-induced lens cell proliferation. *Growth Factors*. 2009;27(1):50-62.
- Kayastha F, Johar K, Gajjar D, et al. Andrographolide suppresses epithelial mesenchymal transition by inhibition of MAPK signalling pathway in lens epithelial cells. *J Biosci*. 2015;40(2):313-324.
- Kliment CR., Englert JM., Crum LP., Oury TD. 2011. A novel method for accurate collagen and biochemical assessment of pulmonary tissue utilizing one animal. *Int J Clin Exp Pathol*. 4(4): 349-355.
- Lasiste JM. 2017. Metformin Inhibits Epithelial To Mesenchymal Transition In Lens Epithelial Cells. McGill University, Canada.
- Leask A, Abraham DJ. 2004. TGF-beta signaling and the fibrotic response. *FASEB J* 18(7):816–827.
- Lee EH., Joo C. 1999. Role of Transforming Growth Factor- β in Transdifferentiation and Fibrosis of Lens Epithelial Cells. *Invest Ophthalmol Vis Sci*, 40: 2015-2032.
- Liegl R, Wertheimer C, Kernt M, Docheva D, Kampik A, Eibl-Lindner KH. 2014. Attenuation of human lens epithelial cell spreading, migration and contraction via downregulation of the PI3K/Akt pathway. *Graefes Arch Clin Exp Ophthalmol*:252(2):285-292

- Liu T, Warburton RR, Guevara OE, Hill NS, Fanburg BL, Gaestel M, Kayyali US .2007. Lack of MK2 inhibits myofibroblast formation and exacerbates pulmonary fibrosis. *Am J Respir Cell Mol Biol* 37(5):507–517
- Lovicu FJ., Shin EH., McAvoy JW. 2015. Fibrosis in the lens. Sprouty regulation of TGF β -signaling prevents lens EMT leading to cataract. *Experimental Eye Research.* p:1-10.
- Marcantonio JM, Syam PP, Liu CS, Duncan G. Epithelial transdifferentiation and cataract in the human lens. *Exp Eye Res.* 2003;77(3):339-346.
- Meacock WR, Spalton DJ, Stanford MR. 2000. Role of cytokines in the pathogenesis of posterior capsule opacification. *Br J Ophthalmology.* : 84: 332-336.
- Nishi O, Nishi K, Imanishi M, Tada Y, Shirasawa E. 1995. Effect of the Cytokine on the Prostaglandin E₂ synthesis by Lens Epithelial Cells of Human Cataracts. *British Journal of Ophthalmology.* 79: 934-938.
- Nishi O, Nishi K, Fujiwara T, Shirasawa E. 1995. Effects of Diclofenac Sodium and Indomethacin on Proliferation and Collagen Synthesis of Lens Epithelial Cells In Vitro. *Journal Cataract Refractive Surgery.* 21:461-465.
- ONeill EC., Qin Q., Bergen NJ., Connell PP., Vasudevan S., Coote MA., Trounce I., Wong T. 2010. Antifibrotic activity of bevacizumab on human tenon's fibroblasts in vitro. *Invest Ophthalmol Vis Sci.* 51:6524-6532.
- Raj SM, Vasavada AR, Johar SRK, Vasavada VA, Vasavada VA. 2007. Post Operative Capsular Opacification: A Review. *International Journal of Biomedical;* 3(4): 237-249.
- Segnani C., Ippolito C., Antonioli L., Pellegrini C., Blandizzi., Dolfi A., Bernardini N. 2015. Histochemical detection of collagen fibers by Sirius red/fast green is more sensitive than van gieson or Sirius red alone in bormal and inflamed rat colon. *PlosOne.* 14: 1-14.
- Shirai K, Kitano-Izutani A, Miyamoto T, Tanaka S, Saika S., 2014, Chapter 9 Wound Healing and Epithelial-Mesenchymal Transition in the Lens Epithelium: Roles of Growth Factors and Extracellular Matrix. In : Saika S, Warner L, Lovicu FJ, editor. *Lens Epithelium and Posterior Capsular Opacification.* Japan : Springer, p. 159-174.
- Stamm A., Reimers K., Straub S., Vogt P., Scheper T., Pepelanova. 2015. In vitro wound healing assays – state of the art. *BioNanoMat.* 17(1-2): 79-87.
- Stratton R., Shiwen X. 2010. Role of prostaglandins in fibroblast activation and fibrosis. *J Cell Commun Signal.* 4:75-77
- Su S and Chen J. 2015. Collagen gen contraction assay. *Protocol Exchange, Nature.* 82: 1-3.

- Sultana T, Sohel D, Kawsar H, Banoo R. 2017. In Vitro Dissolution Study and Assay of Diclofenac Sodium from Marketed Solid Dosage form in Bangladesh. *Bioanal Biomed*, 9:3.
- Tanaka T, Saika S, Ohnishi Y, et al. 2004. Fibroblast growth factor 2: roles of regulation of lens cell proliferation and epithelial-mesenchymal transition in response to injury. *Mol Vis*;10:462-467
- Taskiran D., Taskiran E., Yercan H., Kutay F. 1999. Quantification of Total Collagen in Rabbit Tendon by the Sirius Red Method. *Tr J of Medical Sciences*. 29: 7-9.
- Tiwari A, Ram J, Luthra-Guptasarma M. Targeting the fibronectin type III repeats in tenascin-C inhibits epithelial-mesenchymal transition in the context of posterior capsular opacification. *Invest Ophthalmol Vis Sci*. 2014;56(1):272-283
- Wallentin N, Wickstrom K, Lundberg C. Effect of cataract surgery on aqueous TGF-beta and lens epithelial cell proliferation. *Invest Ophthalmol Vis Sci*. 1998;39(8):1410-1418
- Wertheimer C, Liegl R, Kernt M, et al. EGF receptor inhibitor erlotinib as a potential pharmacological prophylaxis for posterior capsule opacification. *Graefes Arch Clin Exp Ophthalmol*. 2013;251(6):1529-1540
- Wederell ED, de Jongh RU. Extracellular matrix and integrin signaling in lens development and cataract. *Semin Cell Dev Biol*. 2006;17(6):759-776.
- Wormstone IM, Tamiya S, Eldred JA, et al. Characterisation of TGF-beta2 signalling and function in a human lens cell line. *Exp Eye Res*. 2004;78(3):705-714.
- Wormstone IM., Wang L., Liu CSC. 2009. Posterior capsule opacification. *Experimental Eye Research*. p: 257-269.
- Wormstone IM., Eldred JA. 2015. Experimental models for posterior capsule opacification research. *Experimental Eye Research*. p:1-11.
- Wu M, Liu Z, Liu L. 2017. Chapter 25 Prevention and Management of Pediatric Secondary Cataract. In : Liu Y, editor. *Pediatric Lens Disease*. Singapore: Springer, p: 329-336.
- Yao Y, Shao J, Tan X, Xu H, Hu W, Huang H, Cai Y, Liu L. 2011. Effect of Diclofenac Sodium Combined with Nuclear Rotation on The Prevention of Posterior Capsule Opacification: Two Year Follow-up. *Journal Cataract Refractive Surgery*. 37:733-739
- Yu PY., Leung EP., Mak NK., Wong RN. 2010. A simplified method for quantifying cell migration/wound healing in 96-well plates. *Journal of Biomolecular Screening*. 15(4): 427-434.

Zada, M., Pattamatta, U., White, A. 2017. Modulation of Fibroblasts in Conjunctival Wound Healing, *Ophthalmology* 12: 1-14, American Academy of Ophthalmology.