

DAFTAR PUSTAKA

- Auw-Haedrich, C., Sundmacher, R., Freudenberg, N., *et al.* 2005. Expression of p63 in conjunctival intraepithelial neoplasia and squamous cell carcinoma. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 244(1), 96–103;
- Awasthi, N., Guo, S., Wagner, B.J., 2009., Posterior capsular opacification: a problem reduced but not yet eradicated. *Arch Ophthalmol.* Vol.127(4), pp 555-562;
- Bao, XL., Song, H., Chen, Z., *et al.*, 2012., Wnt3a promotes epithelial-mesenchymal transition, migration, and proliferation of lens epithelial cells. *Mol Vis.*, Vol.18, pp 1983-90;
- Barraquer, R., Cortes, L., Allende, M., *et al.* 2017., Validation of the nuclear cataract grading system BCN 10. Institute university Barraquer
- Barriere, G., Tartary, M., Rigaud, M., 2013., Metformin: a rising star to fight the epithelial mesenchymal transition in oncology. *Anticancer Agents Med Chem.*, Vol. 13(2), pp 333-340;
- Bassnett, S., Shi, Y., 2010., A method for determining cell number in the undisturbed epithelium of the mouse lens. *Mol Vis.* Vol.16, pp 2294-230;.
- Colvin, R.B., Bhan, A.K., and McCluskey, R.T. 1995. *Diagnostic Immunopathology*. New York: Raven Press;
- Danielsson, F., Peterson, M. K., Caldera Araujo, *et al.*, 2018., Vimentin Diversity in Health and Disease. *Cells*, 7(10), 147,
- Dawes, L.J., Sleeman, M.A., Anderson, J.K., *et al.* 2009., TGFbeta/Smad4-dependent and -independent regulation of human lens epithelial cells. *Invest Ophthalmol Vis Sci.* Vol.50(11), pp 5318-5327;
- Di Como CJ, Urist MJ, Babayan I, *et al.*, 2002., p63 Expression Profiles in Human Normal and Tumor Tissues., *Clin Cancer Res.*, Vol. 8(2):494-501;
- Duncan, G., Wormstone, IM., Liu, CS., 1997 ., Thapsigargin-coated intraocular lenses inhibit human lens cell growth., *Nat Med.* Vol. 3(9), pp 1026-1028;
- Eldred, J.A., Dawes, L.J., Wormstone, IM., 2011., The lens as a model for fibrotic disease. *Philos Trans R Soc Lond B Biol Sci.* Vol. 366(1568), pp 1301-1319;
- Friedl, P., Hegerfeldt, Y., Tusch, M., 2004. Collective cell migration in morphogenesis and cancer. *The International Journal of Developmental Biology*, 48(5-6), 441–449;
- Godsland IF., 2009., Insulin resistance and hyperinsulinaemia in the development and progression of cancer. *Clin Sci (Lond)*, Vol. 118(5), pp315-332.;
- Gordon-Thomson, C., de Jongh, R.U., Hales. AM., *et al.*, 1998., Differential cataractogenic potency of TGF-beta1, -beta2, and -beta3 and their expression

- in the postnatal rat eye., *Invest Ophthalmol Vis Sci.*, Vol. 39(8), pp 1399-1409;
- Gown AM. and Vogel A.M., 1984, Monoclonal antibodies to human intermediate filament proteins. III. Analysis of tumors, *Am. J. Clin. Pathol.*, Vol. 84, , pp. 413–424;
- Grada, A., Otero-Vinas, M., Prieto-Castrillo, F., *et al.* 2017. Research Techniques Made Simple: Analysis of Collective Cell Migration Using the Wound Healing Assay. *Journal of Investigative Dermatology*, 137(2), e11–e16;
- Ibaraki N., 2002 Human Lens Epithelial Cell Culture. In: Wise C. (eds) *Epithelial Cell Culture Protocols. Methods In Molecular Medicine™*, vol 188. Humana Press:
- Iyengar, L., Patkunanathan, B., McAvoy, JW., *et al.*, 2009., Growth factors involved in aqueous humour-induced lens cell proliferation., *Growth Factor.*, Vol. 27(1), pp 50-62;
- Jick, SL., Beardsley, TL., Brasington, GR., *et al.*, 2016., Complications of Cataract Surgery, *Lens and Cataract*, American Academy of Ophthalmology, San Fransisco, pp 206-211.
- Joo, C.K., Lee, E.H., Kim, J-C., *et al.*, 1999. Degeneration and transdifferentiation of human lens epithelial cells in nuclear and anterior polar cataracts. *Journal of Cataract & Refractive Surgery*, 25(5), 652–658;
- Kaji, Y., Mita, T., Obata, H., *et al.*, 1998., Expression of transforming growth factor beta superfamily and their receptors in the corneal stromal wound healing process after excimer laser keratectomy. *Br J Ophthalmol.* Vol.82(4), pp 462-463;
- Kalariya, NM., Shoeb, M., Ansari, NH.,*et al.*, 2012., Antidiabetic drug metformin suppresses endotoxin-induced uveitis in rats. *Invest Ophthalmol Vis Sci*, Vol.53(7), pp 3431-40;
- Kanski, JJ., 2007., *Lens*, in *Clinical Ophthalmology : a systematic approach.*,6thed. Edinburgh; New York: Elsevier Butterworth-Heinemann., pp 269-303;
- Kayastha, F., Johar, K., Gajjar, D., *et al.* 2015., Andrographolide suppresses epithelial mesenchymal transition by inhibition of MAPK signalling pathway in lens epithelial cells. *J Biosci.* Vol.40(2), pp 313-324;
- Keira, SM., Ferreira, LM., Gragnani, A.,*et al.* 2004., Experimental model for collagen estimation in cell culture. *Acta Cir Bras [serial online]* Vol 19(1), pp.17-22;
- Khairallah, M., Kahloun, R., Bourne, R., *et al.*, 2015., Number of people blind or visually impaired by cataract worldwide and in world regions, 1990 to 2010. *Investigative ophthalmology & visual science*, Vol. 56(11), pp 6762-6769;
- Komaratih, E., Rindiastuti, Y., Dranindi, S., *et al.*, 2019 Antifibrotic Effects of Limbal Mesenchymal Stem Cells-Conditioned Media (LMSCs-CM) on

- Human Tenon's Fibroblasts (HTFs) in Glaucomatous Eyes: Comparison with Mitomycin C, *Scholar Academic Journal of Bioscience Sch Acad J Biosci*, January, 2019; 7 (1): 4–12
- Lalau, JD., 2010., Lactic acidosis induced by metformin: incidence, management and prevention. *Drug Saf.*, Vol.33(9), pp 727-740;
- Lasiste, JM., Zoroquiain, P., Miyamoto, D., *et al.*, 2018. Metformin activity in an in vitro model of posterior capsule opacification. *Vision Pan-America, The Pan-American Journal of Ophthalmology*. 17. 105-112;
- Lasiste, JME., 2017. Metformin inhibits epithelial-to-mesenchymal transition in lens epithelial cells. McGill University.;
- Lei, M., Peng, Z., Dong, Q., 2016., A novel capsular tension ring as local sustained-release carrier for preventing posterior capsule opacification., *Biomaterials*, Vol.89, pp 148-156;
- Liang, C-C., Park, AY., Guan, J-L., 2007., In vitro scratch assay: a convenient and inexpensive method for analysis of cell migration in vitro. *Nat Protoc*. Vol.2, pp 329–333;
- Liegl, R., Wertheimer, C., Kernt, M., *et al.*, 2014., Attenuation of human lens epithelial cell spreading, migration and contraction via downregulation of the PI3K/Akt pathway. *Graefes Arch Clin Exp Ophthalmol.*, Vol.;252(2), pp 285-292;
- Luo, T., Nocon, A., Fry, J., *et al.* 2016., AMPK Activation by Metformin Suppresses Abnormal Extracellular Matrix Remodeling in Adipose Tissue and Ameliorates Insulin Resistance in Obesity. *Diabetes.*, Vol. 65(8), pp 2295-2310;
- McDonnell, PJ., Rowen, SL., Glaser, BM., 1985., Posterior capsule opacification. An in vitro model., *Arch Ophthalmol*. Vol. 103, pp 1378–1381;
- McDonnell, PJ., Zarbin, MA., Green, WR., 1983., Posterior capsule opacification in pseudophakic eyes. *Ophthalmology*, Vol. 90, pp 1548–1553;
- Meacock, WR., Spalton, DJ., Stanford, MR., 2000., Role of cytokines in the pathogenesis of posterior capsule opacification. *Br J Ophthalmol*.Vol.84(3), pp 332-336;
- Nibourg, LM., Gelens, E., Kuijjer, R., *et al.*, 2015., Prevention of posterior capsular opacification., *Exp Eye Res*, Vol.136, pp 100-115;
- Poli, G., Cantini, G., Armignacco, R., *et al.*, 2016., Metformin as a new anti-cancer drug in adrenocortical carcinoma. *Oncotarget*. Vol.7(31), pp 49636-49648;
- Raj, SM., Vasavada, AR., Johar, SR., *et al.*, 2007., Post-operative capsular opacification: a review. *Int J Biomed Sci*.Vol.3(4), pp 237-50;

- Seliger, C., Meyer, AL., Renner, K., 2016., Metformin inhibits proliferation and migration of glioblastoma cells independently of TGF- β 2., *Cell Cycle*, Vol.15(13), pp 1755-1766;
- Shirai, K., Tanaka, SI., Lovicu, FJ., *et al.*, 2017., The murine lens: A model to investigate in vivo epithelial-mesenchymal transition. *Dev Dyn*. Vol.247(3), pp 340-345;
- Stamm, A., Reimers, K., Strauß, S., *et al.*, 2016., In vitro wound healing assays - State of the art. *BioNanoMaterials*. Vol. 17(1-2), pp 79–87;
- Tiwari, A., Ram, J., Luthra-Guptasarma, M., 2014., Targeting the fibronectin type III repeats in tenascin-C inhibits epithelial-mesenchymal transition in the context of posterior capsular opacification., *Invest Ophthalmol Vis Sci.*, Vol. 56(1), pp 272-283;
- Ursini, F., Emilio, R., Pelinio, G., *et al.* 2018 Metformin and autoimmunity: a new deal of an old drug. *University of Catanzo, Italy*, Vol 9, article 1236
- Walker, J., Menko, AS.. 2016 Integrins in lens development and disease. *Exp Eye Res*. Vol.88(2), pp 216-225;
- Wertheimer, C., Liegl, R., Kernt, M., *et al.* 2013. EGF receptor inhibitor erlotinib as a potential pharmacological prophylaxis for posterior capsule opacification. *Graefes Arch Clin Exp Ophthalmol*. Vol.251(6), pp 1529-1540;
- Wormstone IM, Duncan G. Persistent lens cell activity throughout long-term culture of human capsular bags in protein-free medium. *Invest Ophthalmol Vis Sci* 1998;abstract:s212.
- Wormstone, IM., Tamiya, S., Eldred, JA., *et al.* 2004., Characterisation of TGF-beta2 signalling and function in a human lens cell line. *Exp Eye Res*. Vol.78(3), pp 705-714.
- Wormstone, IM., Wang, L., Liu, CSC., 2009., Posterior capsule opacification., *Exp Eye Res*. Vol. 88(2), pp 257-269;
- Yang, J., Luo, L., Liu, X., *et al.* 2010., Down regulation of the PEDF gene in human epithelial cells changed the expression of proteins vimentin and alphaB-crystallin. *State key laboratory of ophthalmology, Zhongshan Ophthalmic Mol vis* vol 83
- Yanoff, M, Duker, JS., 2009., *The Lens.*, In *Ophthalmology*, 4thed. Elsevier Health Sciences., Saunders., pp 381-510;
- Zhang, R., Zhang, P., Wang, H., *et al.* 2015., Inhibitory effects of metformin at low concentration on epithelial-mesenchymal transition of CD44(+)/CD117(+) ovarian cancer stem cells., *Stem Cell Res Ther.*, Vol.6, pp 262.