

REFERENCES

- Abdelsalam A, Del Priore L and Zarbin MA:** (1999) ; Drusen in Age-Related Macular Degeneration: pathogenesis, natural course, and laser photocoagulation-induced regression. *Surv Ophthalmol.* 44:1–29
- Age-Related Eye Disease Study Research Group (AREDS)** (2001) :A randomized, placebo-controlled, clinical trial of high-dose supplementation with vitamins C and E, beta carotene, and zinc for age-related macular degeneration and vision loss: AREDS report no. 8. *Arch Ophthalmol.*;. 119(10):1417-36
- Ahmad I,** (2001) Stem cells: new opportunities to treat eye diseases, *Invest.Ophthalmol.Vis.Sci.*. 42(12), 2743– 2748
- Aisenbrey S, Lafaut BA, Szurman P, Grisanti S, Luke C, Krott R, Thumann G, Fricke J, Neugebauer A, Hilgers RD, Esser P, Walter P and Bartz-Schmidt KU**(2002): Macular translocation with 360 degrees retinotomy for exudative age-related macular degeneration. *Arch Ophthalmol.*;. 120: 451–459
- Alfaro DV, Liggett PE, Mieler WF, Quiroz-Mercado H, Jager RD and Tano Y** (2006): Age-related macular degeneration: a comprehensive textbook. Philadelphia: Lippincott Williams & Wilkins.
- Algvere PV, Berglin L, Gouras P, Sheng Y, Kopp ED**(1997): Transplantation of RPE in age-related macular degeneration: observations in disciform lesions and dry RPE atrophy. *Graefes Arch Clin Exp Ophthalmol.*;. 235:149-158
- Ali M. Riazi, Sarah Y. Kwon, and William L.** (Stanford Stem Cell Sources for Regenerative Medicine) Julie Audet, William L. Stanford (eds.), *Stem Cells in Regenerative Medicine, Methods and Protocols*, vol. 482 _ 2009 Humana Press
- Ambati J, Ambati BK, Yoo SH, Ianchulev S and Adamis AP**(2003): Age-related macular degeneration: etiology, pathogenesis, and therapeutic strategies. *Surv Ophthalmol.*;. 48: 257–293
- Anderson DH, Mullins RF, Hageman GS and Johnson LV**(2002): A role for local inflammation in the formation of drusen in the aging eye. *Am J Ophthalmol.*;.134: 411–431
- Anderson L, Burnstein RM, He X, Luce R, Furlong R, Foltynie T, Sykacek P, Menon DK, Caldwell MA** (2007) Gene expression changes in long term expanded human neural progenitor cells passaged by chopping lead to loss of neurogenic potential in vivo. *Exp Neurol.*204:512–524
- Avery RL, Pieramici DJ and Rabena MD.** (2006) In "Intravitreal bevacizumab (Avastin) for neovascular age-related macular degeneration ". *Ophthalmology*; 113:363–372.

- Azab M, Benchaboune M and Blinder KJ:** (2004) TAP and VIP Study Group; Verteporfin therapy of subfoveal choroidal neovascularization in age-related macular degeneration: meta-analysis of two-year results in three randomized clinical trials TAP and VIP Report 4. *Retina*; 24:1-12
- Banin, E., Obolensky, A., Idelson, M., Hemo, I., Reinhardt, E., Pikarsky, E., Ben-Hur, T., Reubinoff, B.,** (2006). Retinal incorporation and differentiation of neural precursors derived from human embryonic stem cells. *Stem Cells*. 24, 246-257
- Bashshur ZF, Haddad ZA, Schakal A, JAAFAR RF, SAAB M and Nouredin BN,**(2008): Intravitreal Bevacizumab for Treatment of Neovascular Age-related Macular Degeneration: A One-year Prospective Study. *Am J Ophthalmol*; 145:249 -256
- Bird AC, Bressler NM and Bressler SB,**(1995): An International ARM Epidemiology Study Group. An international classification and grading system for age-related maculopathy and age-related macular degeneration. *Survey Ophthalmol*; 39:367-374.
- Bochkov NP, Voronina ES, Kosyakova NV, Liehr T, Rzhaininova AA, Katosova LD, Platonova VI, Gol'dshtein DV** (2007) Chromosome variability of human multipotent mesenchymal stromal cells. *Bull Exp Biol Med*.143:122-126
- Bonnevie, L., Bel, A., Sabbah, L., Al Attar, N., Pradeau, P., Weill, B., Le Deist, F., Bellamy, V., Peyrard, S., Menard, C., Desnos, M., Bruneval, P., Binder, P., Hagege, A.A., Puceat, M., Menasche, P.**(2007). Is xenotransplantation of embryonic stem cells a realistic option? *Transplantation*. 83, 333-335
- Bressler SB, Bressler NM, Alexander J and Green WR,**(1992): Clinicopathologic correlation of occult choroidal neovascularization in age-related macular degeneration. *Arch. Ophthalmol.*; 110: 827- 832.
- Bressler NM, Bressler SB and Congdon NG,**(2003): Potential public health impact of Age-Related Eye Disease Study results: AREDS report no.11. *Arch Ophthalmol*; 121:1621-4.
- Brown DM, Kaiser PK and Michels M; ANCHOR Study Group:** Ranibizumab versus verteporfin for neovascular age-related macular degeneration.
- Bundy RE, Marczin N, Birks EF, Chester AH and Yacoub MH:** Transplant atherosclerosis: role of phenotypic modulation of vascular smooth muscle by nitric oxide. *Gen Pharmacol*; 34: 73-84
- Buzanska L, Machaj EK, Zablocka B, Pojda Z, Domanska-Janik K,**(2002): Human cord blood-derived cells attain neuronal and glial features in vitro. *J Cell Sci*.115:2131-2138
- Canola K, Brigitte A, Meriem T, Alexander Q, Muna I, Francis L, Daniel F. Schorderet, and Yvan A.** (2007), Retinal Stem Cells Transplanted into Models of Late Stages of Retinitis Pigmentosa Preferentially Adopt a Glial or a Retinal Ganglion Cell Fate Investigative Ophthalmology & Visual Science, January, Vol. 48, No. 1

- Celorio JM**,(1999): Choroidal neovascularization. In: Yanoff M, Duker JS, editors. Ophthalmology. St. Louis: Mosby.
- Chacko DM, Rogers JA, Turner JE, Ahmad I.** (2000) Survival and differentiation of cultured retinal progenitors transplanted in the subretinal space of the rat. *Biochem Biophys Res Commun.*;268(3):842-6
- Chang AA, Tan W, Beaumont PE and Zeldovich.**(2003): A Limited macular translocation for subfoveal choroidal neovascularization in age-related macular degeneration. *Clin Exp Ophthalmol*;. 31: 103-109
- Chang A, Tourtellotte WW, Rudick R, Trapp BD.** (2002) Premyelinating oligodendrocytes in chronic lesions of multiple sclerosis. *N Engl J Med*; 346:165-173
- Chen J, Sanberg PR, Li Y, Wang L, Lu M, Willing AE, Sanchez- Ramos J, Chopp M.**(2001): Intravenous administration of human umbilical cord blood reduces behavioral deficits after stroke in rats. *Stroke.* 32:2682-2688
- Ciulla TA, Criswell MH, Danis RP and Hill TE.**(2001a): Intravitreal triamcinolone acetonide inhibits choroidal neovascularization in a laser-treated rat model. *Arch Ophthalmol*;. 119: 399-404
- Ciulla TA, Harris A and Martin BJ.** (2001b): Ocular perfusion and age-related macular degeneration. *Acta Ophthalmol Scand*;. 79:108-15
- Clarke DL, Johansson CB, Wilbertz J,** (2000). Generalized potential of adult neural stem cells. *Science.*;288:1660-1663
- Coles BL, Angenieux B, Inoue T,** (2004). Facile isolation and the characterization of human retinal stem cells. *Proc Natl Acad Sci USA.* ;101:15772-15777
- Cour ML, Kiilgaard JF and Nissen MH.** (2002) :Age-related macular degeneration: epidemiology and optimal treatment. *Drugs Aging*;. 19: 101-133
- Curcio CA, Allen KA**,(1990),Topography of ganglion cells in human retina. *J Comp Neurol.* 300 : 5-25
- Curcio CA, Medeiros NE and Millican CL**(1996): Photoreceptor loss in age related macular degeneration. *Invest Ophthalmol Vis Sci*; 37: 1236-1249
- Curcio CA, Owsley C and Jackson GR** (2000): Spare the rods, save the cones in aging and age-related maculopathy. *Invest Ophthalmol Vis Sci*;. 41: 2015-2018
- Dacey DM** (1999) Primate retina: cell types, circuits and color opponency. *Prog Retin Eye Res.* 18 : 737-763
- Dahlin D and Rahimy MH**,(2007): Pharmacokinetics and metabolism of anecortave acetate in animals and humans. *Surv Ophthalmol*;. 52(Suppl 1):S49-S61
- Daneshvar H, Kertes PJ, Leonard BC and Peyman GA**,(1999): Management of submacular hemorrhage with intravitreal sulfur hexafluoride: a pilot study. *Can J Ophthalmol*; 34:385-8.

- Diana YU, and Gabriel A. Silva**,(2008): Stem cell sources and therapeutic approaches for central nervous system and neural retinal disorders. *Neurosurg. Focus / Volume 24 / March/April*(2008)
- Dorrell M, Jarvinen HU, Aguilar E and Friedlander M**,(2007): Ocular Neovascularization: Basic Mechanisms and Therapeutic Advances.*Surv Ophthalmol*; 52:S3--S19.
- Drukker M**: (2004) Immunogenicity of human embryonic stem cells: can we achieve tolerance? *Springer Semin Immunopathol* 26: 201–213
- Drukker M**. (2008) Review Recent advancements towards the derivation of immune-compatible patient-specific human embryonic stem cell lines. *Seminars in Immunology*. 20 123–129
- Drukker, M., Katchman, H., Katz, G., Even-Tov Friedman, S., Shezen, E., Hornstein, E., Mandelboim, O., Reisner, Y., Benvenisty, N.**, (2006). Human embryonic stem cells and their differentiated derivatives are less susceptible to immune rejection than adult cells. *Stem Cells*.24, 221–229
- Eldred, G.E.** (1998), Lipouscin and other lysosomal storage deposits in the retinal pigment epithelium. In: Marmor, M.F., Wolfensberger, T.J., (Eds.), *The Retinal Pigment Epithelium: Function and Disease*. New York, Oxford, pp.. 651–668
- Enzman Volker n, Russell M. Howard, Yasuyuki Yamauchi, Scott R. Whittemore, and Henry J. Kaplan**(2005) Enhanced Induction of RPE Lineage Markers in Pluripotent Neural Stem Cells Engrafted into the Adult Rat Subretinal Space *Investigative Ophthalmology & Visual Science*, December Vol. 44, No. 12
- Ferrara N**(2004): Vascular endothelial growth factor: basic science and clinical progress. *Endocr Rev* ;. 25: 581– 611
- Figueroa MS, Regueras A, Bertrand J, Aparicio MJ and Manrique MG**: (1997) Laser photocoagulation for macular soft drusen. Updated results. *Retina*;. 17:378-384
- Fine SL, Berger JW, Maguire MG and Ho AC**(2000): Age-related macular degeneration. *New Engl J Med*;.342:483–92
- Fischer D, He Z, Benowitz LI** (2004) Counteracting the Nogo receptor enhances optic nerve re-generation if retinal ganglion cells are in an active growth state. *J Neurosci* 24:1646-1651.
- Frade JM, Bovolenta P, Rodriguez-Tebar A.** (1999) Neurotrophins and other growth factors in the generation of retinal neurons. *Microsc Res Tech.*;. 45:243-251
- Frennesson C and Nilson S**: (1997) Significant decrease in exudative complications after prophylactic laser treatment of soft drusen maculopathy in a randomized study (abstract). *Invest Ophthalmol Vis Sci*;. 38:18–30
- Fricker RA, Carpenter MK, Winkler C, Greco C, Gates MA, Bjorklund A.** (1999) Site-specific migration and neuronal differentiation of human neural progenitor cells after transplantation in the adult rat brain. *J Neurosci.*;19:5990-6005

- Fu, Y., Zhong, H., Wang, M. H., Luo, D. G., Liao, H. W., Maeda, H.,** (2005) .. Intrinsically photosensitive retinal ganglion cells detect light with a vitamin A-based photopigment, melanopsin. *Proceedings of the National Academy of Science of the United States of America.*, 102, 10339–10344
- Fujii GY, Au Eong KG, Humayun MS and Juan E Jr de:** (2002). Limited macular translocation: current concepts. *Ophthalmol Clin North Am*; 15: 425–436
- Gage, F. H.** (2000). Mammalian neural stem cells. *Science* 287, 1433–1438
- Gaillard F., Sauve Y.** (2007), Cell-based therapy for retina degeneration: The promise of a cure *Vision Research*.47 2815–2824
- Gamm DM, Wang S, Lu B, Girman S, Holmes T, Bischoff N,** (2007) Protection of visual functions by human neural progenitors in a rat model of retinal disease. *PLoS ONE* 2:E338,.
- Gordon Keller**(2005) Embryonic stem cell differentiation: emergence of a new era in biology and medicine *Genes & Dev.*. 19: 1129-1155
- Gragoudas ES, Adamis AP, Cunningham ET, Feinsod M and Guyer DR:** (2004) VEGF Inhibition Study in Ocular Neovascularization Clinical Trial Group. Pegaptanib for neovascular age-related macular degeneration *N. Engl. J. Med.*. 351: 2805–2816
- Green WR, McDonnell PJ and Yeo JH:** Pathologic features of senile macular degeneration. *Ophthalmology* 1985; 92: 615–627.
- Guymer RH, Hageman GS and Bird AC**(2001): Influence of laser photocoagulation on choroidal capillary cytoarchitecture. *Br J Ophthalmol*;. 85:40–6
- Hamdi HK and Kenney C:** (2003) Age-related macular degeneration: a new view point. *Front Biosci* ;. 8: e305– e314
- Hamilton AMP, Gregson R, Fish GE.** (1998) *Text atlas of the retina*. London: Martin Dunitz,.
- Hassan AS, Johnson MW, Schneiderman TE, Regillo CD, Tornambe PE and Poliner LS:** (1999) Management of submacular hemorrhage with intravitreal tissue plasminogen activator injection and pneumatic displacement. *Ophthalmology*; 106:1900–6.
- Herriot WJ, Henkind P, Bellhorn RW and Burns MS:** Choroidal neovascularization can digest Bruch's membrane: a prior break is not essential. *Ophthalmology*; (1984). 91: 1603– 1608
- Herriot WJ**(1997): Further experience in management of submacular hemorrhage with intravitreal t-PA. In: *Proceedings of the 1997 update on macular surgery*. San Francisco, Calif.: American Academy of Ophthalmology;. p. 82–4.
- Hochedlinger K, Jaenisch R:** (2006) Nuclear reprogramming and pluripotency. *Nature*.441:1061–1067,

- Hoffman L.M, M.K. Carpenter,** (2005) Characterization and culture of human embryonic stem cells, *Nat. Biotechnol.* 23 699– 708
- Inai T, Mancuso M and Hashizume H:** (2004) Inhibition of vascular endothelial growth factor (VEGF) signaling in cancer causes loss of endothelial fenestrations, regression of tumor vessels, and appearance of basement membrane ghosts. *Am. J. Pathol.*; 165 (1): 35– 52.
- Ishida S, Usui T and Yamashiro K:** (2003) VEGF164-mediated inflammation is required for pathological, but not physiological, ischemia-induced retinal neovascularization. *J. Exp. Med.* 198 483– 489.
- Jager RD, Mieler WF and Miller JW:** (2008) Age-Related Macular Degeneration. *N Engl J Med* ; 358:2606-17.
- Jampol LM and Scott L**(2002): Treatment of juxtafoveal and extrafoveal choroidal neovascularization in the era of photodynamic therapy with verteporfin. *Am J Ophthalmol*; 134:99.
- Jiang, S., Herrera, O., Lechler, R.I.** (2004), New spectrum of allorecognition pathways: implications for graft rejection and transplantation tolerance. *Curr. Opin. Immunol.* 16, 550–557.
- Jiang, S., Lechler, R.I., He, X.S., Huang, J.F.** (2006), Regulatory T cells and transplantation tolerance. *Hum. Immunol.* 67, 765–776.
- Kanski JJ.** (2007) Clinical ophthalmology, 5th edition.Oxford: Butterworth-Heinemann,230-240
- Keam SJ, Scott LJ and Curran MP:** (2003)Verteporfin: a review of its use in the management of subfoveal choroidal neovascularization. *Drugs*; 63:2521– 54.
- Kertes PJ and Coupland SG:** (2005) The use of subretinal triamcinolone acetate in the management of neovascular age-related macular degeneration: a pilot study. *Can J Ophthalmol*; 40:573–84.
- Kim SY, et al.** (2005) Differentiation of endothelial cells from human umbilical cord blood AC133-CD14+ cells. *Ann Hematol*; 84(7): 417-22.
- Kinoshita S, Koizumi N, Sotozono C, Yamada J, Nakamura T, Inatomi T.** (2004) Concept and clinical application of cultivated epithelial transplantation for ocular surface disorders.*Ocul Surf*;2:21–33.
- Klassen H, Kiilgaard JF, Zahir T, Ziaieian B, Kirov I, Scherfig E, Warfvinge K, Young MJ** (2007) Progenitor cells from the porcine neural retina express photoreceptor markers after transplantation to the subretinal space of allorecipients. *Stem Cells* 25:1222–1230
- Klassen HJ, Ng TF, Kurimoto Y, et al.** (2004) Multipotent retinal progenitors express developmental markers, differentiate into retinal neurons, and preserve light-mediated behavior. *Invest Ophthalmol Vis Sci*;45:4167–4173.
- Klein R, Klein BE and Linton LP**(1992): Prevalence of age-related maculopathy. The Beaver Dam Eye Study. *Ophthalmology* ; 99:933–343.
- Kliffen M, Schaft TL, Mooy CM and Jong PT de**(1997a): Morphologic changes in age-related maculopathy. *Microsc Res Tech*; 36: 106–122.

- Lamba Deepak A , Juliane Gust, and Thomas A. Reh** (2008). Transplantation of Human Embryonic Stem Cell-Derived Photoreceptors Restores Some Visual Function in Crx-Deficient Mice DOI 10.1016/j.stem.2008.10.015.
- Lee S, Jilani SM and Nikolova GV:** (2005) Processing of VEGF-A by matrix metalloproteinases regulates bioavailability and vascular patterning in tumors. *J Cell Biol*; 169:681– 691.
- Leonard A. Levin; Robert Ritch, Julia E. Richards, Teresa Borra´s,** (2004) Stem Cell Therapy for Ocular Disorders *ARCH OPHTHALMOL/VOL 122, APR.*
- Leonardo T., Paula C., Alfredo M., Marcio N.** (2007) Stem cells: potential source for retinal repair and regeneration *Arq Bras Oftalmol.*;70(2):371-5.
- Lund R.D, Ono, S.J, Keegan, Lawrence.** (2003). Retinal transplantation: progress and problems in clinical application. *J. Leukoc. Biol.* 74, 151–160.
- Maclaren, R.E., Pearson, R.A., MacNeil, Douglas, R.H., Salt, T.E., Akimoto M., Swaroop, A., Sowden, J.C., and Ali, R.R..** Retinal repair by transplantation of photoreceptor precursors. *Nature* 444, 203–207 (2006).
- Macular Photocoagulation Study Group:** Argon laser photocoagulation for neovascular maculopathy: three-year results from randomized clinical trials. *Arch Ophthalmol*; 104:694-701 (1986).
- Macular Photocoagulation Study Group:** Laser photocoagulation of subfoveal neovascular lesions of age-related macular degeneration. Updated findings from two clinical trials. *Arch Ophthalmol* 1993; 111:1200–9.
- Maguire P and Vine AK:** Geographic atrophy of the retinal pigment epithelium. *Am J Ophthalmol*; 102:621–625 (1986).
- Marmor, M.F.,** 2005. Mechanisms of normal retinal adhesion. In: Ryan, S.J., Wilkinson, P. (Eds.), *Retina*, Vol. 3. Mosby, St Louis, pp. 1891–1908.
- Martin, M.J., Muotri, A., Gage, F., Varki, A.** (2005),. Human embryonic stem cells express an immunogenic nonhuman sialic acid. *Nat. Med.* 11, 228–232.
- Masland RH:** (2004) Neuronal cell types. *Curr Biol* 14:R497–R500,
- McGill, T. J., Lund, R. D., Douglas, R. M., Wang, S., Lu, B., & Prusky, G. T.** (2004). Preservation of vision following cell-based therapies in a model of retinal degenerative disease. *Vision Research*, 44, 2559–2566.
- Meyer JS, Katz ML, Kirk MD.** Stem cells for retinal degenerative disorders. *Ann NY Acad Sci* 2005; 1049: 135–145.
- Miller JW, Shapiro H and Acharya N**(2006); MARINA Study Group: Randomized, Controlled Phase III Study of Ranibizumab (Lucentis) for Minimally Classic or Occult Neovascular Age-Related Macular Degeneration: Two-Year Safety Results of the MARINA Study. *Invest Ophthalmol Vis Sci*; 47: 3539-3548.
- Miller NR, Newman NJ** (eds.). (2006) Walsh and Hoyt's Clinical Neuro- *N Engl J Med*; 355: 1432-1444.

- Mittra RA and Singerman LJ:** (2002) Recent Advances in the Management of Age-Related Macular Degeneration. *Optom Vis Sci*; 79:218–224.
- Muraoka, K., Shingo, T., Yasuhara, T., Kameda, M., Yuan, W., Hayase, H., Matsui, T., Miyoshi, Y., Date, I.** (2006),. The high integration and differentiation potential of autologous neural stem cell transplantation compared with allogeneic transplantation in adult rat hippocampus. *Exp. Neurol.* 199, 311–327.
- Niehaus A, Shi J, Grzenkowski M,** (2000). Patients with active relapsing-remitting multiple sclerosis synthesize antibodies recognizing oligodendrocyte progenitor cell surface protein: implications for remyelination. *Ann Neurol.* 48:362- 371.
- Orlic D, Kajstura J, Chimenti S.** (2001) Transplanted adult bone marrow cells repair myocardial infarcts in mice. *Ann NY Acad Sci.*; 938:221–229.
- Otani, A., Dorrell, M.I., Kinder, K., Moreno, S.K., Nusinowitz, S., Banin, E., Heckenlively, J., Friedlander, M.,** (2004). Rescue of retinal degeneration by intravitreally injected adult bone marrow-derived lineage-negative hematopoietic stem cells. *J. Clin. Invest.* 114, 765e774.
- Pelin Atmaca-Sonmez, Yang Li, Yasuyuki Yamauchi, Carrie L. Schanie, Suzanne T. Ildstad, Henry J. Kaplan, Volker Enzmann.** (2006) Systemically transferred hematopoietic stem cells home to the subretinal space and express RPE-65 in a mouse model of retinal pigment epithelium damage *Experimental Eye Research* 83 1295e1302.
- Pellegrini G, Michele De Luca , Yvan A.** (2007) Towards therapeutic application of ocular stem cells *Seminars in Cell & Developmental Biology* 18 805–818.
- Penfold PL, Madigan MC, Gillies MC and Provis JM** (2001): Immunological and aetiological aspects of macular degeneration. *Prog Retin Eye Res*; 20: 385–414.
- Penfold PL, Provis JM and Billson FA:** Age-related macular degeneration: ultra structural studies of the relationship of leucocytes to angiogenesis. *Graefe Arch. Clin. Exp. Ophthalmol.* 1987; 225: 70– 76.
- Pieramici DJ and Avery RL:** (2006) Ranibizumab treatment in patients with neovascular age-related macular degeneration. *Expert Opin Biol Ther.*; 6:1237-1245.
- Rike Zietlow & Emma L. Lane & Stephen B. Dunnett & Anne E.** (2008) Rosser Human stem cells for CNS repair. *Cell Tissue Res* 331:301–322 DOI 10.1007/s00441-007-0488-1.
- Robert B. Aramant, Norman D. Radtke, and Magdalene J. Seiler,** (2006) Recent Results in Retinal Transplantation Give Hope for Restoring Vision. *Ophthalmology Research: Retinal Degenerations: Biology, Diagnostics, and Therapeutics* Edited by: J. Tombran-Tink and C. J. Barnstable © Humana Press Inc., Totowa, NJ.
- Sarks JP, Sarks SH and Killingsworth MC:** (1997) Morphology of early choroidal neovascularisation in age-related macular degeneration: correlation with activity. *Eye*; 11: 515–522.

- Sarraf D, Gin T, Yu F, Brannon A, Owens SL and Bird AC:** (1999) Long-term drusen study. *Retina*; 19:513–9.
- Sauve´, Y., Girman, S. V., Wang, S., Keegan, D. J., & Lund, R. D.** (2002). Preservation of visual responsiveness in the superior colliculus of RCS rats after retinal pigment epithelium cell transplantation. *Neuroscience*, 114, 389–401
- Scheider A:** (1999) Surgical extraction of subfoveal choroidal new vessels and submacular haemorrhage in age-related macular degeneration: results of a prospective study. *Graefes Arch. Clin. Exp. Ophthalmol.*; 237:10–15.
- Schmidt-Erfurth U and Hasan T:** (2000) Mechanisms of Action of Photodynamic Therapy with Verteporfin for the Treatment of Age-Related Macular Degeneration. *Surv Ophthalmol*; 45 (3), 195–214
- Schmidt-Erfurth U, Michels S, Barbazetto I and Laqua H:** (2002) Photodynamic effects on choroidal neovascularization and physiological choroid. *Invest Ophthalmol Vis Sci.*; 43:830
- Schmidt-Erfurth UM and Pruenste C:** (2007) Management of neovascular age-related macular degeneration. *Progress in Retinal and Eye Research.*; 26: 437–451
- Schro K and Hohlfeld T:** (2004). Mechanisms of anti-ischemic action of prostaglandin E1 (PGE1) in peripheral arterial occlusive disease (PAD), *VASA* 33 119–124
- Schwartz SD:** (2005) Pegaptanib in exudative age-related macular degeneration. *Drugs*; 65, 1578–1579.
- Smith, A.G.** (2001). Embryo-derived stem cells: Of mice and men. *Annu. Rev. Cell Dev. Biol.* 17: 435–462.
- Sparrow JR, Nakanishi K and Parish CA:** (2000) The lipofuscin fluorophore A2E mediates blue light-induced damage to retinal pigmented epithelial cells. *Invest Ophthalmol Vis Sci.*; 41:1981–1989
- Stone TW and Sternberg PJ:** (2002) Submacular surgery trials update. *Ophthalmol Clin North Am*; 15: 479–488.
- Stuermer CA, Bastmeyer M.** (2000) The retinal axon's pathfinding to the optic disk. *Prog Neurobiol.*; 62:197-214
- Sunness JS, Gonzalez-Baron J and Applegate CA:** Enlargement of atrophy and visual acuity loss in the geographic atrophy form of age-related macular degeneration. *Ophthalmology* 1999; 106:1768 –1779.
- Tada M.,** "Nuclear reprogramming of somatic cells by in vitro hybridization with ES cells", *Current Biology* 11, 1553-1558; 2 Oct 2001.
- Takahashi H and Shibuya M:** (2005) The vascular endothelial growth factor (VEGF)/VEGF receptor system and its role under physiological and pathological conditions. *Clin Sci (Lond)*; 109:227–241.

- Tang Y, Yasuhara T, Hara K, Matsukawa N, Maki M, Yu G, Xu L, Hess DC,** (2007) Borlongan CV Transplantation of bone marrow-derived stem cells: a promising therapy for stroke. *Cell Transplant.* 16:159–169
- Tasman W, Jaeger EA, Parks MM and Benson WE,** (2006): Duane's clinical ophthalmology. Philadelphia, PA: Lippincott-Raven.
- Tezel TH, Bora NS and Kaplan HJ. In .** (2004)"Pathogenesis of age-related macular degeneration ". *Trends Mol. Med;* 10:417–420.
- Thomas MA, Grand MG, Williams DF, Lee CM, Pesin SR and Lowe MA. In** "Surgical management of subfoveal choroidal neovascularization". *Ophthalmology* 1992; 99:952–968
- Tomita M, Adachi Y, Yamada H, Takahashi K, Kiuchi K, Oyaizu H,** (2002). Bone marrow-derived stem cells can differentiate into retinal cells in injured rat retina. *Stem Cells.*;20(4):279-83
- Toth CA and Freedman SF;** (2001): Macular translocation with 360- degree peripheral retinectomy: impact of technique and surgical experience on visual outcomes. *Retina.* 21:293–303
- Tran SD ;** (2003) "Differentiation of human bone marrow-derived cells into buccal epithelial cells in vivo: a molecular analytical study"; *Lancet* 361, 1084-1088; 29 March.
- Tzukerman M, Rosenberg T, Ravel Y, Reiter I, Coleman R, Skorecki K.** (2003) An experimental platform for studying growth and invasiveness of tumor cells within teratomas derived from human embryonic stem cells. *Proc Natl Acad Sci U S A.* 2003 Nov 11;100(23):13507-12. Epub Oct 22.
- Votruba, M and Gregor**(2001): Neovascular age-related macular degeneration: present and future options. *Eye.*; 15: 424–429
- Wetzig PC:** Treatment of drusen-related aging macular degeneration by photocoagulation. *Trans Am Ophthalmol Soc;* (1988). 86:276–290
- Williamson TH, O'Donnell A.** (2005) Intravitreal triamcinolone acetate for cystoid macular edema in nonischemic central retinal vein occlusion. *Am J Ophthalmol.*;139(5):860-6
- Wislet-Gendebien S, Hans G, Leprince P, Rigo JM, Moonen G, Rogister B** (2005) Plasticity of cultured mesenchymal stem cells: switch from nestin-positive to excitable neuron-like phenotype. *Stem Cells.* 23:392–402
- Yamada E** Some structural features of the fovea centralis in the human retina. *Arch Ophthalmol*(1969). 82 :151–155
- Yan, J., Xu, L., Welsh, A.M., Chen, D., Hazel, T., Johe, K., Koliatsos, V.E.** (2006),. Combined immunosuppressive agents or CD4 antibodies prolong survival of human neural stem cell grafts and improve disease outcomes in amyotrophic lateral sclerosis transgenic mice. *Stem Cells.* 24, 1976–1985
- Yang P, Seiler MJ, Aramant RB, Whittemore SR.** (2002) In vitro isolation and expansion of human retinal progenitor cells . *Exp Neurol.*; 177: 326-331.
- Yau Joanne , Henry Klassen, Tasneem Zahir, and Michael Young,** (2006) *Stem Cells and Retinal Transplantation Ophthalmology Research: Retinal Degenerations: Biology, Diagnostics, and Therapeutics* Edited by: J. Tombran-Tink and C. J. Barnstable © Humana Press Inc., Totowa, NJ.

- Ying Q-L** (2002)., "Changing potency by spontaneous fusion", *Nature* 545-548; 4 Apr.
- Young MJ, Ray J, Whiteley SJ, Klassen H, Gage FH.** (2000) Neuronal differentiation and morphological integration of hippocampal progenitor cells transplanted to the retina of immature and mature dystrophic rats. *Mol Cell Neurosci*; 16:197–205.
- Zarbin MA**(1998): Age-related macular degeneration: pathogenesis, clinical findings and current management. *Ophthalmology*; 8(1):1–8.
- Zhang Y, Kardaszewska AK, van Veen T, Rauch U, Perez MT.** (2004) Integration between abutting retinas: role of glial structures and associated molecules at the interface. *Invest Ophthalmol Vis Sci*; 45:4440–4449.
- Zhao X, Das AV, Thoreson WB, James J, Wattnem TE, Rodriguez-Sierra J,** (2002) Adult corneal limbal epithelium: a model for studying neural potential of non-neural stem cells/progenitors. *Dev Biol*; 250(2):317–31.