

REFERENCES

- Abdel-Khalek L.M., Williamson J. and Lee W.R. (1978):** Morphological changes in the human conjunctival epithelium, I: in the normal elderly population. Br Ophthalmol 62: 792.
- Anderson D.F., Ellies P., Pires R.T., Tseng S.C. (2001):** Amniotic membrane transplantation for partial limbal stem cell deficiency: Long term outcomes. Br J Ophthalmol 85: 567-575.
- Andrew J.Q., Noriko K. and Shigeru K. (2002):** Limbal stem cell deficiency and ocular surface reconstruction. O.T. p. 27.
- Andrews J.S. (1973):** The meibomian secretion. Int Ophthalmol Clin 13: 1.
- Ang L.P. and Tan D.T. (2004):** Ocular surface stem cells and disease current concepts and clinical application. Ann Acad Med Singapore 33: 576-580.
- Azuara-Blanco A, Pillai C.T., Dua H.S. (1999):** Amniotic membrane transplantation for ocular surface reconstruction. Br J Ophthalmol 83: 399-402.
- Ballen P.H. (1964):** Treatment of chemical burns of the eye. Eye, Ear, Nose and Throat Monthly 43: 57-58.

- Blumke S. and Morganroth K. Jr (1967):** The stereo ultrastructure of the external and internal surface of the cornea. *J Ultrastruct Res* 18: 502.
- Bouchard C.S. (1997):** The ocular immune response. In: *Cornea*. By: Krachmer J.H., Mannis M.J., Holland E.J. (eds.). St. Louis, Mosby, p. 68-127.
- Bradshaw J.J., Obritsch W.F., Cho B.J., Gregerson D.S., Holland E.J. (1999):** Ex vivo transduction of corneal epithelial progenitor cells using a retroviral vector. *Invest Ophthalmol Vis Sci* 40: 230-235.
- Bravo-Macdonlad and Bravo H. (1987):** Existence of two populations of cyclin proliferating cell nuclear antigen during the cell cycle association with DNA replication sites. *J Cell Bio* Los 1549-1554.
- Bron A.J. and Seal D.V. (1986):** The deffences o the ocular surface. *Trans Ophthalmol Soc UK* 105: 18.
- Bron A.J. and Tripathi R.C. (1969):** Anterior corneal mosaic. Further observations. *Br J Ophthalmol* 53: 760.
- Butterfield L.C. and Neufeld A.H.(1977):** Cyclic nucleotides and mitoses in the rabbit cornea following superior cervical ganglionectomy. *Exp Eye Res* 25: 427.

- Cavanagh H.D., Jester J.V., Essepian J., et al. (1990):** Confocal microscopy of the living eye. *CLAO J* 16: 65-73.
- Cavanagh H.D., Petroll W.M., Alizadeh H., McCulley J.P. and Jester J.V. (1993):** Clinical diagnostic use of in vivo confocal microscopy in patients with corneal diseases. *Ophthalmology* 100: 1444-1454.
- Chen J.J., Tseng S.C. (1990):** Corneal epithelial wound healing in partial limbal deficiency. *Invest Ophthalmol Vis Sci* 31: 1301-1314.
- Chen J.J., Tseng S.C. (1991):** Abnormal corneal epithelial wound healing in partial-thickness removal of limbal epithelium. *Invest Ophthalmol vis Sci* 32: 2219-2233.
- Chiou A.G., Florakis G.J., Kazim M. (1998):** Management of conjunctival cicatrizing diseases and severe ocular surface dysfunction. *Surv Ophthalmol* 43 (1): 19-46.
- Cope C., Dilley P.N., Kaura R., et al. (1986):** Wettability of the corneal surface: a reappraisal. *Curr Eye Res* 5: 777.
- Coroneo M. (1990):** Albedo concentration in the anterior eye: a phenomenon that locates some solar diseases. *Ophthalmic Surgery* 20: 60-66.

- Cotsarelis G., Cheng S.Z., Dong G., Sun T.t., Lavker R.M. (1989):** Existence of slow-cycling limbal epithelial basal cells that can be preferentially stimulated to proliferate: implications on epithelial stem cells. *Cell* 57: 201-209.
- Daya S.M. and Ilari F.A. (2001):** Living related conjunctival limbal allograft for the treatment of stem cell deficiency. *Ophthalmology* 108 (1): 126-133.
- Dekaris I., Gabric N., Karaman Z. et al. (2001):** Pterygium treatment with limbal conjunctival autograft transplantation. *Call Antropol* 25: 7-12.
- Dekaris I., Gabric N., Karaman Z., Mravicic J., et al. (2002):** Lambal conjunctival autograft transplantation for recurrent pterygium. *Eur J Ophthalmol* 12 (3): 177-182.
- Diaz-Araya C.M., Madigan M.C., Provis J.M., et al. (1995):** Immunohistochemical and topographic studies of dendritic cells and macrophages in human fetal cornea. *Invest Ophthalmol Vis Sci* 36: 644.
- Dilley P.N. (1985):** Contribution of the epithelium to the stability of the tear film. *Trans Ophthalmol Soc UK* 104: 381.
- Donisi, Pietro M., Rama, Paolo, Fasolo, Adriano, Ponzin, Diegu (2003):** Analysis of limbal stem cell deficiency by corneal impression cytology. *Cornea* 22 (60): 533-538.

- Dua H.S. (1995):** Stem cells of the ocular surface: scientific principles and clinical applications. *Br J Ophthalmol* 79: 968-969.
- Dua H.S. and Azuara-Blanco A. (1999):** Allo-limbal transplantation in patients with limbal stem cell deficiency. *Br J Ophthalmol* 83: 414-419.
- Dua H.S. and Azuara-Blanco A. (1999):** Amniotic membrane transplantation. *Br J Ophthalmol* 83: 748-52.
- Dua H.S. and Azuara-Blanco A. (2000):** Autologous limbal transplantation in patients with unilateral corneal stem cell deficiency. *Br J Ophthalmol* 84: 273-278.
- Dua H.S. and Azuara-Blanco A. (2000):** Limbal stem cells of the corneal epithelium. *Surv Ophthalmol* 44: 415-425.
- Dua H.S., Anthony J., King, Annie J. (2001):** A new classification of ocular surface burn. *Br J Ophthalmol* 85: 1379-1383.
- Dua H.S., Chan J., Gomes J.A., Azuara-Blanco A. (1998):** Adverse effect of blood group ABO mismatching on corneal epithelial cells. *Lancet* 352: 1667-1668.
- Dua H.S., Saini J.S., Azuara-Blanco A., Gupta P. (2000):** Limbal stem cell deficiency: concept aetiology, clinical presentation, diagnosis and management. *Indian J Ophthalmol* 48: 83-92.

- Duke-Elder S. (1965):** Diseases of the outer eye. In: System of ophthalmology series. By: Duke-Elder S. (ed.). Vol. 8, Part 1: St. Louis, CV Mosby, p. 573.
- Duke-Elder S. and Wybar K.C. (1961):** The anatomy of the visual system. In: System of ophthalmology. By: Duke-Elder S. and Wybar K (eds.), 2nd ed., Henry Kimpton, London.
- Dushku N., Reid T.W. (1994):** Immunohistochemical evidence that human pterygia originate from an invasion of vimentin-expressing altered limbal epithelial basal cells. Current Eye Research 13: 473-481.
- Earley O. (1991):** Morphology and in vitro growth dynamics of the human epithelium. An age-related study. MD Thesis.
- El-Balkini M.S., Baligh M.A. and El Matarawi M.A. (1998):** The in vivo cellular structure of normal human cornea using confocal slit scanning video microscope. J of Egyptian Society of Catract and Cornea Diseases 4: 17-25.
- Fawcett D.W. (1966):** the cell; an Atlas of Fine Structure, WB, Saunders, Philadelphia.
- Friend J., Kinoshita S., Thoft R.A., Eliason J.A. (1982):** Corneal epithelial cell cultures on stromal carriers. Invest Ophthalmol Vis Sci 23: 41-9.

- Frucht-Pery J., Siganos C.S., Solomon A., et al. (1998):** Limbal cell autograft transplantation for severe ocular surface disorders. *Graefes Arch Clin Exp Ophthalmology* 236 (8): 582-587.
- Gangadhar D.V. and Kenyon K.R. (1995):** Chemical and thermal burns of the cornea. In: *Master techniques in ophthalmic surgery*. By: Roy F.H. (ed.), Chap 17, Williams & Wilkins p. 136-191.
- Geggel H.S., Friend J., thoft R.A. (1985):** Collagen gel for ocular surface. *Invest Ophthalmol Vis Sci* 26: 901-5.
- Gipson I.K. (1989):** The epithelial basement membrane zone of the limbus. *Eye* 3: 132.
- Gipson I.K., Friend J., Spurr S.J. (1985):** Transplant of corneal epithelium to rabbit corneal wounds in vivol. *Invest Ophthalmol Vis Sci* 26: 425-33.
- Gipson I.K., Grill S.M. (1982):** A technique for obtaining sheets of intact rabbit corneal epithelium. *Invest Ophthalmol Vis Sci* 23: 269-273.
- Gipson I.K., Westcott M.J. and Brooksby N.G. (1982):** Effects of cytochalasins B and D and colchicines on migration of the corneal epithelium. *Invest Ophthalmol vis Sci* 2: 633.

- Girolamo N.D., Tedla N., Kumar R.K., McCluskey F., Lloyd A., coroneo M.T. and Wakefield D. (1999):** Culture and characterization of epithelial cells from human pterygia. Br J Ophthalmol 83: 1077-1082.
- Goldman J. and Kuwabara T. (1968):** Histopathology of corneal edema. Int Ophthalmol Clin 8: 561.
- Greiner J.V., Covington H.I. and Allansmith M.R. (1977):** Surface morphology of the human upper tarsal conjunctiva. Am J Ophthalmol 73: 892.
- Greiner J.V., Covington H.I. and Allansmith M.R. (1979):** The human limbus. A scanning electron microscopic study. Arch Ophthalmol 97: 1159.
- Greiner J.V., Henriquez A.S., Covington H.I., et al. (1981):** Goblet cells of the humanconjunctiva. Arch Ophthalmol 99: 2190.
- Gris O., Guell J.L. and Delcampo Z. (2000):** Limbal-conjunctival autograft transplantation for the treatment of recurrent pterygium. Ophthalmol 107 (2): 270-273.
- Guler M., Sobaci G., Tilker S., Ozturk F., Mutlu F.M. and Yildirim E. (1994):** Limbal conjunctival autograft transplantation in cases with recurrent pterygium. Acta Ophthalmol 72 (6): 721-726.

- Hauswirth W.W., Beaufriere L. (2000):** Ocular gene therapy: quo vadis? Invest Ophthalmol Vis Sci 41: 2821-2826.
- He Y.G., McCulley J.P. (1991):** Growing human corneal epithelium on collagen shield and subsequent transfer to denuded cornea in vitro. Curr Eye Res 10: 851-63.
- Hoffman F. (1972):** The surface of epithelial cells of the cornea under the scanning electron microscope. Ophthalmol Res 3: 207.
- Holland E.J. (1996):** Epithelial transplantation for the management of severe ocular surface disease. Trans Am Ophthalmol Soc 99: 677-743.
- Holland E.J. and Schwartz G.S. (1996):** The evolution of epithelial transplantation for severe ocular surface disease and a proposed classification system. Cornea 15 (6): 549-556.
- Holland E.J., Djalilian A.R., Schwartz G.S. (2003):** Management of aniridic keratopathy with keratolimbal allograft. A limbal stem cell transplantation technique. Ophthalmology 110 (1): 125-130.
- Holly F.J. and Lemp M.A. (1971):** Wettability and wetting of corneal epithelium. Exp Eye Res 11:239.
- Holly F.J. and Lemp M.A. (1977):** Tear physiology and dry eyes. Surv Ophthalmol 22:69.

- Huang A.J., Tseng S.C. (1991):** Corneal epithelial wound healing in the absence of limbal epithelium. *Invest Ophthalmol Vis Sci* 32: 96-105.
- Husk Y.Y., Toa I. and Tsubota K. (1995):** Tear function index, a new measure of dry eye. *Arch Ophthalmol* 113: 81-88.
- Kanski J.J. (2003):** Cornea and sclera. In: *Clinical ophthalmology a systemic approach*. By: Linacre House Jordan Hill (eds.), 5th ed., (Butter Worth-Heinamann), Oxford p. 96.
- Karasek M.A., Charlton M.E. (1971):** Growth of postembryonic skin epithelial cells on collagen gels. *J Invest Dermatol* 56: 205-10.
- Kenyon K.r. (1969):** The synthesis of basement membrane by the corneal epithelium in bulbous keratopathy. *Invest Ophthalmol* 8: 156.
- Kenyon K.R., Tseng S.C. (1989):** Limbal autograft transplantation for ocular surface disorders. *Ophthalmology* 96: 709-723.
- Kenyon K.R., Wagnor M.D. and Shore J.W. (1997):** Ocular surface transplantation. In: *Cornea*. By: Krachmer J.H., Mannis M.J., Holland E.J. (eds.), Vol. III, Chap. 154, Mosby p. 1887-1902.

- Kessing S.V. (1966):** Investigations of the conjunctival mucin. Quantitative studies of the goblet cells of conjunctiva. *Acta Ophthalmol* 44: 439.
- Kessing S.V. (1968):** Mucous gland system of the conjunctiva. A quantitative normal anatomical study. *Acta Ophthalmol Suppl* 95: 1.
- Khodadhoust A.A., Silverstein A.M., Kenyon K.R., et al. (1968):** Adhesions of regenerating corneal epithelium. The role of basement membrane. *Am J Ophthalmol* 65: 339.
- Kim J.C. and Tseng S.C. (1995):** Transplantation of preserved human amniotic membrane for surface reconstruction in severely damaged rabbit corneas. *Cornea* 14: 473-484.
- Kinoshita S. (2002):** Ocular surface reconstruction by tissue engineering. *J Jap Ophthalmol Soc* 106: 837-869.
- Kinoshita S., Kiorpes T.C., Friend J., et al. (1982):** Limbal epithelium in ocular surface wound healing. *Invest Ophthalmol Vis Sci* 23: 73-80.
- Kinoshita S., Nagae Y. and Kiitoshi A. (1991):** Angiogenesis is induced by in vivo rabbit conjunctival epithelium. (ARVO Abstract), *Invest Ophthalmol Vis Sci* 32 (Suppl.): 1162.

- Klyce S.D., Neufeld A.H. and Zadunaisky J.A. (1973):** The activation of chloride transport by epinephrine and Db cyclic-AMP in the cornea of the rabbit. *Invest Ophthalmol* 12: 127.
- Koizumi N., Inatomi T., Suzuki T., Sotozono C., Kinoshita S. (2001):** Cultivated corneal epithelial transplantation for ocular surface reconstruction in acute phase of Stevens-Johnson syndrome. *Arch Ophthalmol* 119: 298-300.
- Koizumi N., Inatomi T., Suzuki T., Sotozono C., Kinoshita S. (2001):** Cultivated corneal epithelial stem cell transplantation in ocular surface disorders. *Ophthalmology* 108: 1569-1574.
- Kruse F.E. (1994):** Stem cells and corneal epithelial regeneration. *Eye* 8: 170-83.
- Kuwabara T. (1978):** Current concepts in anatomy and histology of the cornea. *Contact Lens Intraoc Lens Med J* 4: 101.
- Kuwabara T., Perkins D.G. and Cogan D.G. (1976):** Sliding of the epithelium in experimental wounds. *WHO* 15: 4.
- Kwitko S., Marinho D, Barcara S., Bocacci F., Rymer S., Fernandez S. and Neumann J. (1995):** Allograft conjunctival transplantation for bilateral ocular surface disorders. *Ophthalmology* 102 (7): 1020-1025.

- Lavker R.M., Wei Z.G., Sun T.T. (1998):** Phorbol ester preferentially stimulates mouse fornical conjunctival and limbal epithelial cells to proliferate in vivo. *Invest Ophthalmol Vis Sci* 39: 301-307.
- Lindberg K., Brown M.E., Chaves H.V., Kenyon K.R., Rheinwald J.G. (1993):** In vitro propagation of human ocular surface epithelial cells for transplantation. *Invest Ophthalmol Vis Sci* 34: 2672-2679.
- Liotet S., van Bijsterveld O.P., Kogbe O., et al. (1987):** A new hypothesis on tear film stability. *Ophthalmological* 195: 119.
- Matic M., Petrov I.N., Chen S., Wang C., Dimitrijevic S.D., Wolosin J.M. (1997):** Stem cells of the corneal epithelium lack connexins and metabolite transfer capacity. *Differentiation* 61: 251-160.
- Maurice D.M. (1962):** the cornea and sclera. In: *The eye*. By: Davson H. (ed.), Academic Press, New York p.289.
- McDonald J.E. and Brubacker S. (1971):** Meniscus-induced thinning of tear films. *Am J Ophthalmol* 72: 139
- Mishima S. (1965):** Some physiological aspects of the precorneal tear film. *Arch Ophthalmol* 73: 233.

- Mishima S. and Maurice D.M. (1961):** The oily layer of tear film and evaporation from the corneal surface. *Exp Eye Res* 1: 39.
- Mishima S., Gasset A., Klyce S., et al. (1966):** Determination of tear flow. *Invest Ophthalmol* 5: 264.
- Moore J.T., Karasek M.A. (1971):** Isolation and properties of a germinative and a non-germinative cell population from postembryonic mouse, rabbit and human epidermis. *J Invest Dermatol* 56: 318-324.
- Murat G., Gungor S., Sami I., Farouk O., Mehmet M. and Erol Y. (1994):** Limbal conjunctival autograft transplantation in cases with recurrent pterygium. *Acta Ophthalmol* 72: 721-726.
- Mutlu F.M., Sobaci G., Tatar T., Yildirim E. (1999):** A comparative study of recurrent pterygium surgery. *Ophthalmology* 106: (4): 817-821.
- Nichols B., chiappino M.L. and Dawson C.R. (1985):** Demonstration of the mucous layer of the tear film by electron microscopy. *Invest Ophthalmol Vis Sci* 26: 464.
- Nishiwaki-Dantas M.C., Dantas P.E., Reggi J.R. (2001):** Ipsilateral limbal translocation for treatment of partial limbal deficiency secondary to ocular alkali burn. *Br J Ophthalmol* 85: 1031-1033.

- Nishiwaki-Dantas M.C., Dantas P.E., Reggi J.R. (2001):** Ipsilateral limbal translocation for treatment of partial limbal deficiency secondary to ocular alkali burn. *Br J Ophthalmol* 85: 1031-1033.
- Noguchi Y., Uchida Y., Endo T., et al. (1995):** The induction of cell differentiation and polarity of tracheal epithelium cultured on the amniotic membrane. *Biochem Biophys Res Commun* 210: 302-309.
- Noriko Koizuma, Leanra J.C., Nigel J., et al. (2002):** An evaluation of cultivated corneal limbal epithelial cells, using cell-suspension culture. *Investigative Ophthalmology and Visual Science* 43: 2114-2121.
- Osama M.K. (2003):** Limbal conjunctival autograft versus mitomycin C in recurrent pterygium. *Benha M.J.* 20 (2): 309-313.
- Pellegrini G., Golisano O., Paterna P., et al. (1999):** Location and clonal analysis of stem cells and their differentiated progeny in the human ocular surface. *J Cell Biol* 145: 769-82.
- Pellegrini G., Traverso C.E., Franzi A.T., et al. (1997):** Long-term restoration of damaged corneal surfaces with autologous cultivated cornea epithelium. *Lancet* 349: 990-993.

- Petersen R.A., Lee K.J. and Donn A. (1965):** Acetylcholinesterase in the rabbit cornea. Arch Ophthalmol 73: 370.
- Pfister R.R. (1973):** the normal surface of corneal epithelium: a scanning electron microscopic study. Invest Ophthalmol 12: 654.
- Pfister R.R. (1975a):** The normal surface of conjunctiva epithelium. A scanning electron microscopic study. Invest Ophthalmol 14: 267.
- Pfister R.R. (1975b):** The healing of corneal epithelial abrasions in the rabbit: a scanning electron microscope study. Invest Ophthalmol 14: 648.
- Pfister R.R. and Burstein N.L. (1976):** The normal and abnormal human corneal epithelial surface: a scanning electron microscopic study. WHO 1: 1.
- Pires R.T., Chokshi A., Tseng S.C. (1999):** Amniotic membrane transplantation or limbal conjunctival autograft for limbal stem cell deficiency induced by 5-fluorouracil in glaucoma surgeries. Cornea 19: 284-287.
- Prabhasawat P., Tseng S.C. (1997):** Impression cytology study of epithelia phenotype of ocular surface reconstructed by preserved human amniotic membrane. Arch Ophthalmol 115: 1360-1367.

- Prydal J.I. (1990):** Invest Ophthalmol Vis Sci 30: 470.
- Prydal J.I. and Campbell F.W. (1992):** Study of precorneal tear film thickness and structure by interferometry and confocal microscopy. Invest Ophthalmol Vis Sci p. 33.
- Puangsricharern V. and Tseng S.C. (1995):** Cytologic evidence of cornea diseases with limbal stem cell deficiency. Ophthalmology 102: 1476-1485.
- Rama P., Bonini S., Lambiase A., et al. (2001):** Autologous fibrin-cultured limbal stem cells permanently restore the corneal surface of patients with total limbal stem cell deficiency. Transplantation 72: 1478-1485.
- Ramaesh K. and Dhillon B. (2003):** Ex vivo expansion of corneal limbal epithelial stem cells for corneal surface reconstruction. European Journal of Ophthalmology 13: 515-524.
- Rao S.K., Rajagopal R., Sitalakshmi G., Padmanabhan P. (1999):** Limbal autografting: comparison of results in the acute and chronic phases of ocular surface burns. Cornea 18: 164-171.
- Rao S.K., Rajagopal R., Sitalakshmi G., Padmanabhan P. (1999):** Limbal autografting from related live donors for corneal surface reconstruction. Ophthalmology 106: 822-828.

- Rao V., Friend J., Thoft R.A., et al. (1987):** Conjunctival goblet cells and mitotic rate in children with retinol deficiency and measles. *Arch Ophthalmol* 105: 378.
- Ray J.T., Lien-Min Li B.S. and Jan K.C. (2000):** Reconstruction of damaged corneas by transplantation of autologous limbal epithelial cells. *The New England Journal of Medicine* 343 (2): 86-93.
- Reinstein D.Z., Silverman R.H., Rondeau M.J., et al. (1994):** Epithelial and corneal thickness measurements by high-frequency ultrasound digital signal processing. *Ophthalmology* 101: 140.
- Rheinwald J.G. (1980):** Serial cultivation of normal human epidermal keratinocytes. *Methods Cell Biol* p. 229-254.
- Rheinwald J.G. and Green H. (1975):** Serial cultivation of strains of human epidermal keratinocytes: the formation of keratinizing colonies from single cells. *Cell* 6: 331-43.
- Richard G., Rouan F., Willoughby C.E., Brown N., Chung P., Ryyanen M., Jabs E.W., Bale S.J., Digiovanna J.J., Uitto J. and Russell L. (2002):** Missense mutations in GJB2 encoding connexin-26 cause the ectodermal dysplasia keratitis-ichthyosis-deafness syndrome. *Am J Hum Genet* 70: 134-148.

- Ronk J.F., Ruiz-Esmenjaads, Osorio M., Baciogalupi M. and Goosey J.D. (1994):** Limbal conjunctival autograft in a subacute alkaline corneal burn. *Corneal* 13 (5): 465-486.
- Roper-Hall M.J. (1965):** Thermal and chemical burns. *Trans Ophthalmol Soc UK* 85: 631-653.
- Schermer A., Galvin S. and Sun T.T. (1986):** Differentiation-related expression of a major 64K corneal keratin in vivo and in culture suggests limbal location of corneal epithelial stem cells. *J Cell Biol* 103: 49-62.
- Schwab I.R. (1999):** Cultured corneal epithelial for ocular surface disease. *Trans Am Ophthalmol Soc* 97: 891-986.
- Schwab I.R. and Isseroff R.R. (2000):** Bioengineered corneas: the promise and the challenge. *N Engl J Med* 343: 136-138.
- Schwab I.R., Reyes M., Isseroff R.R. (2000):** Successful transplantation of bioengineered tissue replacements in patients with ocular surface disease. *Cornea* 19: 421-6.
- Schwartz G.S., Holland E.J. (1998):** Iatrogenic limbal stem cell deficiency. *Cornea* 17 (1): 31-17.
- Segawa K. (1964):** Electron microscopy of dendritic cells in the human corneal epithelium. *Arch Ophthalmol* 72: 650.

- Shen J., Taylor N., Duncan L., Kovesdi I., Bruder J.T, Forrester J.V., Dick A.D. (2001):** Ex vivo adenovirus mediated gene transfection of human conjunctival epithelium. *Br J Ophthalmol* 85: 861-7.
- Shimazaki J., Shimmura S. and Tsubota K. (2004):** Donor source affects the outcome of ocular surface reconstruction in chemical or thermal burn of the cornea. *Ophthalmol Ogy* 111 (1): 38-44.
- Shimazaki J., Shimmura S., Fujishima H. and Tsubota K. (2000):** Association of preoperative tear function with surgical outcome in severe Stevens-Johnson syndrome. *Ophthalmology* 107: 1518-1523.
- Shimazaki J., Yang H.Y. and Tsubota K. (1996):** Limbal autograft transplantation for recurrent and advanced pterygia. *Ophthalmic Surg Lasers* 27: 17-23.
- Shimazaki J., Yang H.Y. and Tsubota K. (1997):** Amniotic membrane transplantation for ocular surface reconstruction in patients with chemical and thermal burns. *Ophthalmology* 104: 2068-2076.
- Smelser G.K. and Ozanics V. (1965):** New concepts in anatomy and histology of the cornea. In: *The cornea world congress*. By: King J.H. and McTigue J.W. (eds.), Butterworth, Washington, p. 1.

- Snip R.C., Thoft R.A. and Tolentino F.I. (1979):** epithelial healing rates of the normal and diabetic human cornea. ARVO Suppl: Invest Ophthalmol Vis Sci 18: 73.
- Sridhar M.S., Vemuganti G.K., Bansal A.K., Rao G.N. (2001):** Impression cytology-proven corneal stem cell deficiency in patients after surgeries involving the limbus. Cornea 20: 145-148.
- Steuhl K.P. (1989):** Ultrastructure of conjunctival epithelium. Dev Ophthalmol 19: 1.
- Tan D.T., Tseng S.C. (2000):** Pterygium and ultraviolet light-induced conjunctival disorders. In: Atlas of Ophthalmology: Parrish II RK (ed.). Butterworth, Heinemann p. 159-163.
- Tani H., Morris R.J. Kaur P. (2000):** Enrichment for murine keratinocyte stem cells based on cell surface phenotype. Proc Natl Acad Sci USA 97: 10960-10965.
- Thoft R.A. (1977):** Conjunctival transplantation. Arch. Ophthalmol 95: 1425-1427.
- Thoft R.A. (1983):** Conjunctival surgery for corneal disease. In: the cornea scientific foundation and clinical practice. By: Smolin G. and Thoft R.A. (eds.), Little, Brown and Company p. 465.

- Thoft R.A. (1984):** Keratoepithelioplasty. Am J. Ophthalmol 97: 1-6.
- Thoft R.A. and Friend J. (1977):** Biochemical transformation of regenerating surface epithelium. Invest Ophthalmol Vis Sci 16: 14.
- Tiffany J.M. (1990a):** Measurement of wettability of the corneal epithelium. 2 contact angle method. Acta Ophthalmol 68: 182.
- Tiffany J.M. (1990b):** Measurement of wettability of the corneal epithelium. 1 particle attachment method. Acta Ophthalmol 68: 175.
- Tomii S. and Kinoshita S. (1994):** Observation of human corneal epithelium by tandem scanning confocal microscope. Scanning 16: 305.
- Tomy A.G. (1997):** User information, confoscan, 4-dimentional confoc microscope, description of the components, p. 9-14 At Weichselgraten 19a, 91058, Elangen-Tennenhole, Germany.
- Tonjum A.M. (1974):** Permeability of horseradish peroxidase in rabbit corneal epithelium. Acta Ophthalmol 52: 650.
- Tripathi R.C. and Tripathi B.J. (1984a):** Anatomy of the human eye, orbit and adnexa. In: the eye. By: Davson H. (ed.), 3rd ed., Academic Press, London, p.40, 157.

- Tsai R.J. and Tseng S.C. (1994):** Human allograft limbal transplantation for corneal surface reconstruction. *Cornea* 13 (5): 389-400.
- Tsai R.J., Li L.M. and Chen J.K. (2000):** Reconstruction of damaged corneas by transplantation of autologous limbal epithelial cells. *N Engl J Med* 343: 86-93.
- Tseng S.C. (1985):** Staining of conjunctival squamousmetaplasia impression cytology. *Ophthalmology* 92 (6): 728-733.
- Tseng S.C. (1993):** Cocept and application of limbal stem cells. *Eye* 3: 141-157.
- Tseng S.C. (1996):** Regulation and clinical implications of corneal epithelial stem cells. *Mol Biol Rep* 23: 47-58.
- Tseng S.C., Jarvinen J.J., Nelson W.G. et al. (1982):** Correlation of specific keratins with different types of epithelial differentiation: monoclonal antibody studies. *Cell* 30: 361.
- Tseng S.C., Marinho D. and Kwitco S. (2003):** Does amniotic membrane transplantation improve the outcome of autologus limbal transplantation. *Cornea* 22 (4): 338-342.
- Tseng S.C., Prabhasawat P. and Lee S.H. (1997):** Amniotic membrane transplantation for conjunctival surface reconstruction. *Am J Ophthalmol* 124: 765-774.

- Tseng S.C., Prabhasawat P., Barton K., Gray T. and Meller D. (1998):** Amniotic membrane transplantation with or without limbal allografts for corneal surface reconstruction in patients with limbal stem cell deficiency. *Arch Ophthalmol* 116: 431-441.
- Tseng S.C., Ti S.E., Anderson D.F., Touhami A. and Kim C. (2002):** Factors affecting outcome following transplantation of ex vivo expanded limbal epithelium on amniotic membrane for total limba deficiency in rabbit. *Invest Ophthalmol Vis Sci* 43: 2584-2592.
- Tsubota K., Satake Y., Kaido M., Shinozaki N., Shimmura S., Bissen-Miyajima H. and Shimazaki J. (1999):** Treatment of severe ocular surface disorders with corneal epithelial stem-cell transplantation. *N Eng J Med* 340: 1697-1703.
- Tsubota K., Satake Y., Ohyama M., Toda I., Takano Y., Ono M., Shinozaki N. and Shimazaki J. (1996):** Surgical reconstruction of the ocular surface in advanced ocular cicatricial pemphigoid and Stevens-Johnson syndrome. *Am J Ophthalmol* 122: 38-52.
- Tsubota K., Toda I., Saito H., et al. (1995):** Reconstruction of the corneal epithelium by limbal allograft transplantation for severe ocular surface disorder. *Ophthalmology* 102: 1486-1496.

- Turgeon P.W., Nauheim R.G., Raot M.I., Sopak S.S. and Thoft R.A. (1990):** Indication for keratoepithelioplasty. Arch Ophthalmol 108: 233-236.
- Vantrappen L., Geboes K., Missotten L., et al. (1985):** Lymphocytes and Langerhans cells in the normal human cornea. Invest Ophthalmol 26: 285.
- Wagnor M.D. and Kenyon K. (1987):** Conjunctival transplantation for pterygium and other ocular surface disorders. In: Burner E.W. and Stark J.W. (eds). Manual of corneal surgery. Churchill Livingstone p. 119.
- Wei Z.G., Lin T., Sun T.T. and Lavker R.M. (1997):** Clonal analysis of the in vivo differentiation potential of keratinocytes. Invest Ophthalmol Vis Sci 238: 753-761.
- Wei Z.G., Sun T.T., Lavker R.M. (1996):** Rabbit conjunctival and corneal epithelial cells belong to two separate lineages. Invest Ophthalmol Vis Sci 37: 523-533.
- Wei Z.G., Wu R.L., Lavker R.M., Sun T.T. (1993):** In vitro growth and differentiation of rabbit bulbar, fornix, and palpebral conjunctival epithelia. Implications on conjunctival epithelial transdifferentiation and stem cells. Invest Ophthalmol Vis Sci 34: 1814-1828.