

2. Shiraishi A, Converse RL, Liu CY, et al. Identification of the cornea-specific keratin 12 promoter by *in vivo* particle-mediated gene transfer. *Invest Ophthalmol Vis Sci.* 1998;39:2554–2561.
3. Gipson IK. Distribution of mucins at the ocular surface. *Exp Eye Res.* 2004;78:379–388.
4. Ban Y, Dota A, Cooper LJ, et al. Tight junction-related protein expression and distribution in human corneal epithelium. *Exp Eye Res.* 2003;76:663–669.
5. Yoshida Y, Ban Y, Kinoshita S. Tight junction transmembrane protein claudin subtype expression and distribution in human corneal conjunctival epithelium. *Invest Ophthalmol Vis Sci.* 2009;50:2103–2108.
6. Schlötzer-Schrehardt U, Kruse FE. Identification and characterization of limbal stem cells. *Exp Eye Res.* 2005;81:247–264.
7. Pellegrini G, Rama P, Mavilio F, et al. Epithelial stem cells in corneal regeneration and epidermal gene therapy. *J Pathol.* 2009;217:217–228.
8. Hayashi R, Yamato M, Sugiyama H, et al. N-Cadherin is expressed by putative stem/progenitor cells and melanocytes in the human limbal epithelial stem cell niche. *Stem Cells.* 2007;25:289–296.
9. Hayashi R, Yamato M, Saito T, et al. Enrichment of corneal epithelial stem/progenitor cells using cell surface markers, integrin alpha6 and CD71. *Biochem Biophys Res Commun.* 2008;367:256–263.
10. Watanabe K, Nishida K, Yamato M, et al. Human limbal epithelium contains side population cells expressing the ATP-binding cassette transporter ABCG2. *FEBS Lett.* 2004;565:6–10.
11. Cotsarelis G, Cheng SZ, Dong G, et al. Existence of slow-cycling limbal epithelial basal cells can be preferentially stimulated to proliferate: implications on epithelial stem cells. *Cell.* 1989;57:201–209.
12. Ebato B, Friend J, Thoft RA. Comparison of limbal and peripheral human corneal epithelium in tissue culture. *Invest Ophthalmol Vis Sci.* 1988;29:1533–1537.
13. Lindberg K, Brown ME, Chaves HV, et al. In vitro propagation of human ocular surface epithelial cells for transplantation. *Invest Ophthalmol Vis Sci.* 1993;34:2672–2679.
14. Kenyon KR, Tseng SC. Limbal autograft transplantation for ocular surface disorders. *Ophthalmology.* 1989;96:709–722; discussion 722–723.
15. Nishida K. Tissue engineering of the cornea. *Cornea.* 2003;22:S28–S34.
16. Oie Y, Nishida K. Regenerative medicine for the cornea. *Biomed Res Int.* 2013;2013:428247.
17. Shimazaki J, Shimmura S, Fujishima H, et al. Association of preoperative tear function with surgical outcome in severe Stevens-Johnson syndrome. *Ophthalmology.* 2000;107:1518–1523.
18. Tsubota K, Satake Y, Kaido M, et al. Treatment of severe ocular-surface disorders with corneal epithelial stem-cell transplantation. *N Engl J Med.* 1999;340:1697–1703.
19. Tan DT, Dart JK, Holland EJ, et al. Corneal transplantation. *Lancet.* 2012;379:1749–1761.
20. Pellegrini G, Traverso CE, Franzi AT, et al. Long-term restoration of damaged corneal surfaces with autologous cultivated corneal epithelium. *Lancet.* 1997;349:990–993.
21. Tsai RJ, Li LM, Chen JK. Reconstruction of damaged corneas by transplantation of autologous limbal epithelial cells. *N Engl J Med.* 2000;343:86–93.
22. Rama P, Bonini S, Lambiase A, et al. Autologous fibrin-cultured limbal stem cells permanently restore the corneal surface of patients with total limbal stem cell deficiency. *Transplantation.* 2001;72:1478–1485.
23. Koizumi N, Inatomi T, Suzuki T, et al. Cultivated corneal epithelial stem cell transplantation in ocular surface disorders. *Ophthalmology.* 2001;108:1569–1574.
24. Sangwan VS, Vemuganti GK, Iftekhar G, et al. Use of autologous cultured limbal and conjunctival epithelium in a patient with severe bilateral ocular surface disease induced by acid injury: a case report of unique application. *Cornea.* 2003;22:478–481.
25. Schwab IR, Reyes M, Isseroff RR. Successful transplantation of bioengineered tissue replacements in patients with ocular surface disease. *Cornea.* 2000;19:421–426.
26. Rama P, Matuska S, Paganoni G, et al. Limbal stem-cell therapy and long-term corneal regeneration. *N Engl J Med.* 2010;363:147–155.
27. Nishida K, Yamato M, Hayashida Y, et al. Corneal reconstruction with tissue-engineered cell sheets composed of autologous oral mucosal epithelium. *N Engl J Med.* 2004;351:1187–1196.
28. Nakamura T, Inatomi T, Sotozono C, et al. Transplantation of autologous cultivated oral mucosal epithelial cells in patients with severe ocular surface disorders. *Br J Ophthalmol.* 2004;88:1280–1284.
29. Okano T, Yamada N, Sakai H, et al. A novel recovery system for cultured cells using plasma-treated polystyrene dishes grafted with poly(N-isopropylacrylamide). *J Biomed Mater Res.* 1993;27:1243–1251.
30. Nishida K, Yamato M, Hayashida Y, et al. Functional bioengineered corneal epithelial sheet grafts from corneal stem cells expanded ex vivo on a temperature-responsive culture surface. *Transplantation.* 2004;77:379–385.
31. Hayashida Y, Nishida K, Yamato M, et al. Ocular surface reconstruction using autologous rabbit oral mucosal epithelial sheets fabricated ex vivo on a temperature-responsive culture surface. *Invest Ophthalmol Vis Sci.* 2005;46:1632–1639.
32. Nakamura T, Takeda K, Inatomi T, et al. Long-term results of autologous cultivated oral mucosal epithelial transplantation in the scar phase of severe ocular surface disorders. *Br J Ophthalmol.* 2011;95:942–946.
33. Satake Y, Higa K, Tsubota K, et al. Long-term outcome of cultivated oral mucosal epithelial sheet transplantation in treatment of total limbal stem cell deficiency. *Ophthalmology.* 2011;118:1524–1530.
34. Oie Y, Nozaki T, Takayanagi H, et al. Development of a cell sheet transportation technique for regenerative medicine. *Tissue Eng Part C Methods.* 2014;20:373–382.
35. Wagner RT, Lewis J, Cooney A, et al. Stem cell approaches for the treatment of type 1 diabetes mellitus. *Transl Res.* 2010;156:169–179.
36. Ryan SJ. Governmental, university, pharmaceutical, and foundation partnerships to advance translational research in retinal disease. *Retina.* 2005;25:S82.

