

# **Aeon Astron Corporation**

## **Publication list**

**Since 2006**

### **(A). SCI papers**

#### **Biocornea**

1. Lin, C.C., Ritch, R., Lin, S.M., Ni, M.H., Chang, Y.C., Lu, Y.L., Lai, H.J., and Lin, F.H. (2010). A new fish scale-derived scaffold for corneal regeneration. *Eur. Cell. Mater.* 26, 50-57.

#### **ologen<sup>®</sup>**

1. Rosentreter, A., Mellein, A.C., Konen, W.W., and Dietlein, T.S. (2010). Capsule excision and ologen<sup>™</sup> implantation for revision after glaucoma drainage device surgery. *Graefes Arch. Clin. Exp. Ophthalmol.* Published online on 20 Apr. 2010.
2. Papaconstantinou, D., Georgalas, I., Karmiris, E., Diagourtas, A., Koutsandrea, C., Ladas, I., Apostolopoulos, M., and Georgopoulos, G. (2010). Trabeculectomy with ologen versus trabeculectomy for the treatment of glaucoma: a pilot study. *Acta Ophthalmol.* 88, 80-85.\*
3. Aptel, F., Dumas, S., and Denis, P. (2009). Ultrasound biomicroscopy and optical coherence tomography imaging of filtering blebs after deep sclerectomy with new collagen implant. *Eur. J. Ophthalmol.* 19, 223-230.
4. Hsu, W.-C., Ritch, R., Krupin, T., and Chen, H.S.-L. (2008). Tissue bioengineering for surgical bleb defects: an animal study. *Graefes Arch. Clin. Exp. Ophthalmol.* 246, 709-717.
5. Dietlein, T.S., Jordan, J., Lueke, C., and Kriegelstein, G.K. (2008). Modern concepts in antiglaucomatous implant surgery. *Graefes Arch. Clin. Exp. Ophthalmol.* 246, 1653-1664.

#### **Footnote:**

\* OculusGen<sup>™</sup> Collagen Matrix has been renamed into ologen<sup>®</sup> Collagen Matrix in July 2007. The implants used in this study are Oculusgen<sup>™</sup> Collagen Matrix. The material constituents and the physical properties of OculusGen<sup>™</sup> Collagen Matrix has been improved and upgraded for better performance and efficacy. This becomes ologen<sup>®</sup> Collagen Matrix. Furthermore, when ologen<sup>®</sup> Collagen Matrix is applied in trabeculectomy, loose suture on the sclera flap is strongly recommended.

## **(B). Conference posters and presentations**

### **Biocornea**

1. Lin, C.C., Ritch, R., Lin, S.M., Ni, M.H., Chang, Y.C., Lai, H.J., and Lin, F.H. (2010). Fish Scale-derived Biocornea. ARVO 2010 Annual Meeting. May 2-6, Fort Lauderdale, USA.
2. Lin, C.C., Ritch, R., Lin, S.M., Ni, M.H., Chang, Y.C., and Lin, F.H. (2010). Biocornea: A New Fish Scale-derived Scaffold for Corneal Regeneration. The 25<sup>th</sup> APAO-AAO Joint Congress, September 16-20, Beijing, China.

### **ologen<sup>®</sup>**

1. Rao, S. (2010). ologen as an adjunct in refractory glaucoma surgery. The 25<sup>th</sup> APAO-AAO Joint Congress, September 16-20, Beijing, China.
2. Ogle, J., and Lim, B.A. (2009). Comparison of biodegradable collagen implant in patients undergoing phaco-trabeculectomy. The World Glaucoma Congress (WGC) 2009, July 8-11, Boston, USA.
3. Sumantri, W. (2009). Trabeculectomy using biodegradable collagen matrix implant in chronic primary glaucoma patients: bleb analysis with anterior segment optical coherence tomography. The World Glaucoma Congress (WGC) 2009, July 8-11, Boston, USA.
4. Narayanaswamy, K.A., Seah, S.K., Perera, S.A., Wong, T.T., Hoh, S.T., and Aung, T. (2009). Use of biodegradable collagen matrix implant for phacotrabeculectomy surgery in primary glaucoma: initial results of a case-control study. The World Glaucoma Congress (WGC) 2009, July 8-11, Boston, USA.
5. Chen, H.S.-L., and Hsu, W.-C. (2009). Trabeculectomy with biodegradable 3D-porous collagen-glycosaminoglycan scaffold for treatment of refractory glaucoma. The World Glaucoma Congress (WGC) 2009, July 8-11, Boston, USA.
6. Prihatningtias, R., Sadasih, W., and Rahmi, F. (2009). The comparison between ologen<sup>™</sup> Collagen Matrix implant & Mitomycin-C in the glaucoma filtration surgery. The 24<sup>th</sup> APAO-AAO Joint Congress, May 16-19, Bali, Indonesia.
7. Sadasih, W. (2009). The comparison between ologen<sup>™</sup> Collagen Matrix implant & Mitomycin-C in the glaucoma filtration surgery. The 24<sup>th</sup> APAO-AAO Joint Congress, May 16-19, Bali, Indonesia.
8. Ali, I., and Butt, N. (2009). Study of the safety and effectiveness between collagen matrix implant and Mitomycin-C in standard glaucoma filtration surgery. The 24<sup>th</sup> APAO-AAO Joint Congress, May 16-19, Bali, Indonesia.

9. Shihadeh, W. A. (2009). Efficacy and safety of utilizing a biodegradable collagen matrix implant in trabeculectomy. The Middle East African Council of Ophthalmology (MEACO), March 26-30, Manama, Bahrain.
10. Wu, Q., Du, X., and Song, B. (2008). Trabeculectomy with ologen™ Collagen Matrix implant: the treatment outcomes after six month of follow-up. The 5<sup>th</sup> Congress of South East Asia Glaucoma Interest Group (SEAGIG), September 25-27, Seoul, Korea.
11. Singh, K., and Khurana, C. (2008). Bleb characteristics of subconjunctival collagen implant in trabeculectomy compared with Mitomycin blebs. The 5th Congress of South East Asia Glaucoma Interest Group (SEAGIG), September 25-27, Seoul, Korea.
12. Kohlhaas, M. Trabeculectomy with Mitomycin-C and ologen™. (2008). The 106<sup>th</sup> Deutsche Ophthalmologische Gesellschaft (DOG) Congress, September 18-21, Berlin, Germany.
13. Kohlhaas, M. (2008). ologen™-implant. The 106<sup>th</sup> Deutsche Ophthalmologische Gesellschaft (DOG) Congress, September 18-21, Berlin, Germany.
14. Ozcan, A.A., Dulger, E., and Simsek, F. (2008). Ex-PRESS R-50 miniature glaucoma implant insertion under the sclera combined with Mitomycin C and OculusGen™ application. The XXVI Annual Congress of the European Society of Cataract and Refractive Surgeons (ESCRS), September 13-17, Berlin, Germany.
15. Shihadeh, W. (2008). Efficacy and safety of utilizing a biodegradable collagen matrix implant in trabeculectomy. The XXVI Annual Congress of the European Society of Cataract and Refractive Surgeons (ESCRS), September 13-17, Berlin, Germany.
16. Yuan, F., Li, L., Chen, X., and Wang, L. (2008). Biodegradable 3D-porous collagen-glycosaminoglycan scaffold for treatment of refractory glaucoma. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.
17. Lim, B.A., and Ogle, J. (2008). The use of biodegradable collagen implant in trabeculectomy. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.
18. Grewal, S.P.S., Grewal, D., Jain, R., and Brar, G.S. (2008). Adjunctive use of biodegradable porous collagen-glycosaminoglycan implant in phacoemulsification combined with trabeculectomy for surgical management of primary open angle glaucoma. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.

19. Kaljurand, K. (2008). ologen™ Collagen Matrix implant in glaucoma filtering surgery. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.
20. Ali, S.I., and Butt, N.H. (2008). Study of the safety and effectiveness between ologen™ Collagen Matrix implant and Mitomycin-C in standard glaucoma filtration surgery. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.
21. Jansari, P., Porwal, M., Hindocha, C. (2008). Trabeculectomy with subconjunctival biodegradable implant. World Ophthalmic Congress (WOC) 2008, June 28-July 2, Hong Kong.
22. Grewal, S.P.S., Jain, R., Grewal, D., and Brar, G.S. (2008). Safety and efficacy of oculusGen™ biodegradable collagen matrix implant in phacotrabeculectomy surgery. The 2008 American Society of Cataract and Refractive Surgery (ASCRS)-ASOA Symposium and Congress, April 4-9, Chicago, USA.
23. Ruokonen, P.C., Rieger, R., Berndt, S., Mai, C., and Rieck, P. (2007). First experiences with the ologen™ (OculusGen™) collagen-matrix-implant in glaucoma surgery. The World Glaucoma Congress (WGC), July 18-21, Singapore.
24. Gunenc, U., Arikan, G., and Cingil, G. (2007). The trabeculectomy and viscocanalostomy with ologen™ (OculusGen™) implant: short term results. The World Glaucoma Congress (WGC), July 18-21, Singapore.
25. Chen, H., Ritch, R., Krupin, T., Li, X.X., Yuan, F., Dai, H., and Hsu, W.-C. (2007). Clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. The World Glaucoma Congress (WGC), July 18-21, Singapore.
26. Yuan, X., Chen, X.P., Li, L.E.I., and Wang, L.Y. (2007). The effectiveness and safety of OculusGen™ Collagen Matrix implanted in glaucoma patients during filtering surgery. The World Glaucoma Congress (WGC), July 18-21, Singapore.
27. Hsu, W.-C., Ritch, R., Krupin, T.K., and Chen, H.S.-L. (2007). Tissue bioengineering for bleb defects: an animal study. The World Glaucoma Congress (WGC), July 18-21, Singapore.
28. Rieck, P.W., and Ruokonen, P.C. (2007). First clinical experience in Germany with a biodegradable porous collagen-glycosaminoglycan implant as a new device for trabeculectomy. Joint Congress of SOE/AAO, June 9-12, Vienna, Austria.

29. Hsu, W.-C., Ritch, R., Krupin, T., and Chen, H.S.-L. (2007). Tissue bioengineering for bleb defects: an animal study. Joint Congress of SOE/AAO, June 9-12, Vienna, Austria.
30. Chen, H.S.-L., Ritch, R., Krupin, T., Chen, P.Y.F., Li, X.X., Yuan, F., Dai, H., and Hsu, W.-C. (2007). Clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. Joint Congress of SOE/AAO, June 9-12, Vienna, Austria.
31. Chen, H.L., Li, X., Yuan, F., and Hsu, W. (2007). Clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. The 2007 ARVO Annual Meeting, May 6-10, Florida, USA.
32. Hsu, W.-C., Ritch, R., Krupin, T., and Chen, H.S.-L. (2007). Tissue bioengineering for bleb defects: an animal study. The 2007 ARVO Annual Meeting, May 6-10, Florida, USA.
33. Yuan, F., Li, L., and Chen, X. (2007). The OculusGen™ Collagen Matrix implanted in the filtering surgery of glaucoma patients. IX Congress of the Middle East African Council of Ophthalmology (MEACO), March 29-April 1, Dubai, UAE.
34. Yuan, F., Li, L., Chen, X., and Chen, X. (2006). The effectiveness and safety of OculusGen™ Collagen Matrix implanted in glaucoma patients during filtering surgery. SEAGIG 2006, December 1-3, Chennai, India.
35. Hou, X., and Ren, Z.Q. (2006). Initial result of trabeculectomy with OculusGen™. SEAGIG 2006, December 1-3, Chennai, India.
36. Chen, H.S.-L., Hsu, W.-C., and Ren, Z.Q. (2006). Clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. SEAGIG 2006, December 1-3, Chennai, India.
37. Hsu, W.-C., Ritch, R., Krupin, T., and Chen, H.S.-L. (2006). Control of filtering bleb structure through tissue bioengineering: an animal model. SEAGIG 2006, December 1-3, Chennai, India.
38. Chen, H.S.-L., Yuan, F., and Hsu, W.-C. (2006). Trabeculectomy with biodegradable 3D porous collagen-glycosaminoglycan scaffold for treatment of refractory glaucoma. AAO-APAO 2006, November 11-14, Las Vegas, USA.
39. Yuan, F., Chen, X., Chen, X., Li, L., and Wang, L. (2006). The subconjunctival implantation of OculusGen™ Collagen Matrix at surgical

- excision of pterygium. XXIV Congress of the ESCRS, September 9-13, London, UK.
40. 袁非. (2006). OculusGen™ Collagen Matrix 在小梁切除術中的應用. The Third Global Chinese Ophthalmic Conference in conjunction with XI National Congress of Chinese Ophthalmological Society, August 31-September 4, Beijing, China.
  41. 侯憲如. (2006). 視原在小梁切除術中應用效果的初步觀察. The Third Global Chinese Ophthalmic Conference in conjunction with XI National Congress of Chinese Ophthalmological Society. August 31-September 4, Beijing, China.
  42. Chen, H.S.-L., Yuan, F., Dai, H., Ren, Z.Q., and Hsu, W.-C. (2006). Initial clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. The Third Global Chinese Ophthalmic Conference in conjunction with XI National Congress of Chinese Ophthalmological Society, August 31-September 4, Beijing, China.
  43. Chen, H.S.-L., Yuan, F., Dai, H., Li, X.X., Hou, X., Ren, Z.Q., and Hsu, W.-C. (2006). Trabeculectomy with biodegradable 3D-porous collagen-glycosaminoglycan scaffold for treatment of refractory glaucoma. The Third Global Chinese Ophthalmic Conference in conjunction with XI National Congress of Chinese Ophthalmological Society, August 31-September 4, Beijing, China.
  44. Hsu, W.-C., Yuan, F., Dai, H., Hou, X., Ren, Z.Q., and Chen, H.S.-L. (2006). A new filtering approach in improving safety and long term effect of filtering surgery utilizing a 3D-Collagen GAG matrix: an animal model. The Third Global Chinese Ophthalmic Conference in conjunction with XI National Congress of Chinese Ophthalmological Society, August 31-September 4, Beijing, China.
  45. Yuan, F., Chen, X.P., and Chen, X. (2006). Surgical excision of primary pterygium combined with subconjunctival implantation of OculusGen™ Collagen Matrix. The 21<sup>st</sup> Congress of the APAO 2006, June 10-14, Singapore.
  46. Chen, H.S.-L., and Hsu, W.-C. (2006). A new filtering approach in improving safety and long term effect of filtering surgery utilizing a 3-D collagen GAG matrix: an animal model. The 3<sup>rd</sup> International Congress on Glaucoma Surgery (ICGS) 2006, May 25-28, Toronto, Canada.
  47. Hsu, W.-C., Yuan, F., Dai, H., Hou, X., Ren, Z.Q., and Chen, H.S.-L. (2006). A new filtering approach in improving safety and long term effect of

filtering surgery utilizing a 3-D collagen GAG matrix: An animal model. WOC 2006, February 20-24, Sao Paulo, Brazil.

48. Chen, H.S.-L., Yuan, F., Dai, H., Hou X., Ren Z.Q., and Hsu, W.-C. (2006). Initial clinical experience with biodegradable 3D-porous collagen-glycosaminoglycan scaffold (OculusGen™) for treatment of refractory glaucoma. WOC 2006, February 20-24, Sao Paulo, Brazil.

### **(C). Other reports**

#### **ologen®**

1. Sarkisian, S.R. (2010). A replacement for antimetabolites? ologen is a new product that modulates wound healing in glaucoma surgery. *Glaucoma Today*, 8, 22-24.
2. Rao, K., Ahmed, I., Blake, D.A., and Ayyala, R.S. (2009). New devices in glaucoma surgery. *Expert Rev. Ophthalmol.* 4, 491-504.#
3. Zelefsky, J.R., Hsu, W.-C., and Ritch, R. (2008). Biodegradable collagen matrix implant for trabeculectomy. *Expert Rev. Ophthalmol.* 3, 613-617.
4. Kohlhaas, M. (2008). Postoperative Risiken bei voroperierten Augen werden gesenkt. Trabekulektomie mit Mitomycin C und ologenimplantat. *Ophthalmologische Nachrichten*, Oct. 2008.
5. Tope, A., Mermoud, A., and Shaarawy, T.M. (2007). *Glaucoma 2007*. *Ophthalmology Times Europe*, 3, 33-39.
6. Ritch, R. (2007). Using bioengineered collagen matrix during trabeculectomy. Biodegradable polymer implants show promise for improving the function of filtering blebs. *Glaucoma Today*, 5, 14-15.

#### **Footnote:**

# In this review, all the references cited under iGEN™ collagen implant (references no. 42-46) were originally referred to ologen® Collagen Matrix (please refer to our publication list: (B). 47, (B). 19, (A). 3, (B). 15, and (A). 5, respectively). The authors of this review and the publisher of the journal have been asked to issue an erratum in order not to misleading the readers. For the information of ologen® Collagen Matrix, please see the publication list above.