



# THE UNIVERSITY OF HONG KONG EYE INSTITUTE



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### Research Interests

My primary research interests are in rhegmatogenous retinal detachment and proliferative vitreoretinopathy, diabetic retinopathy, and choroidal neovascularization.

The following are some of my current research projects:

1. The use of novel agents to enhance the success of retinal detachment surgeries
2. The use of anti-angiogenesis agents in the treatment of age-related macular degeneration, pathologic myopia, and diabetic retinopathy
3. Epidemiology of age-related eye diseases

### Selected Publications

(*Italics = Corresponding Author*)

1. Chang CJ, **Lai WW**, Edward DP, Tso MOM. Apoptotic photoreceptor cell death after traumatic retinal detachment in humans. *Arch Ophthalmol* 1995;113:880-886.
2. **Lai WW**, Edward DP, Weiss RA, Mafee MF, Tso MOM. Magnetic resonance imaging findings in a case of advanced Coats' disease. *Ophthalmic Surg and Lasers* 1996;27:234-238.
3. DeBacker C, El-Naggar S, Sugar J, **Lai WW**. Effect of neodymium:YAG laser posterior capsulotomy on corneal grafts. *Cornea* 1996;15:15-17.
4. Rezai KA, **Lai WW**, Farrokh-Siah L, Perlman J, Shu J, Patel SC, Ernest JT. A new method of culturing and transferring iris pigment epithelium. *Invest Ophthalmol Vis Sci* 1997;38:2255-2260

5. **Lai WW**, Bhavnani VD, Tessler HH, Edward DP. Role of melanin in a rabbit model of traumatic hyphema. *Arch Ophthalmol* 1999;117:789-793.
6. **Lai WW**, Meyers SM, Brent G, Humayun M, Langston RH. Management of retinal impact site without surrounding retinopathy after intraocular foreign body trauma. *Ophthalmology* 2000;170(5):811-812.
7. **Lai WW**, Edward DP, Tessler HH, Bhavnani VD. Risk factors for complications following traumatic hyphema. *Arch Ophthalmol* 2001;119:1732.
8. Yeh PC, Goins KM, **Lai WW**. Managing anterior capsule contraction by mechanical widening with vitrector-cut capsulotomy. *J Cataract Refract Surg* 2002;28:217-220.
9. Chung G, **Lai WW**, Pulido JS, Menner C, Blair NP. The use of magnetic resonance imaging in the diagnosis of subretinal cysticercosis. *Am J Ophthalmol* 2002;134:6:931-932.
10. Greuloch K, **Lai WW**, Pulido JS. Hemorrhage in patients who have received transpupillary thermotherapy for subfoveal choroidal neovascularization. *Can J Ophthalmol* 2003;38(4):308-311.
11. **Lai WW**, Shahidi M, Mori M, Pulido JS. Chorio-retinal topography and histopathology correspondence in laser-induced choroidal neovascularization. *Ophthalmic Surg and Lasers* 2003;34:38-43.
12. Blake CR, **Lai WW**, Edward DP. Ethnic differences in ocular anatomy. *International Ophthalmology Clinics* 2003;43(4):9-25..
13. Early Treatment For Retinopathy Of Prematurity Cooperative Group. Revised indications for the treatment of retinopathy of prematurity: results of the Early Treatment for Retinopathy of Prematurity Randomized Trial. *Arch Ophthalmol* 2003;121(12):1684-94.
14. Early Treatment for Retinopathy of Prematurity Cooperative Group. Multicenter trial of early treatment for retinopathy of prematurity: study design. *Controlled Clin Trials*. 2004;25:311–325.
15. Sharma MC, **Lai WW**, Shapiro MJ. Pseudohypopyon following intravitreal triamcinolone acetonide injection. *Cornea* 2004;23(4):398-9.
16. Fiscella RG, **Lai WW**, Buerk B, Khan M, Rodvold KA, Pulido JS, Labib S, Shapiro MJ, Blair NP. Aqueous and vitreous penetration of Linezolid (Zyvox) after oral administration. *Ophthalmology* 2004;111:1191-1195.
17. **Lai WW**, Lam DSC. Flashers, floaters, and retinal detachment. *Hong Kong Practitioner* 2004;26:436-439.
18. Chan CKM, Fan DSP, Chan WM, **Lai WW**, Lee VYW, Lam DSC. Ocular-hypertensive response and corneal endothelial changes after

- intravitreal triamcinolone injections in Chinese subjects: a 6-month follow-up study. *Eye* 2005;(5):19(6):625-30.
19. Lam DSC, Chan WM, Liu DTL, Fan DSP, **Lai WW**, Chong KKL. Photodynamic therapy with Verteporfin for subfoveal choroidal neovascularization of pathologic myopia in Chinese eyes - a prospective series of 1 and 2 years follow-up. *Br J Ophthalmol* 2004;88:1315-1319.
  20. Lam DSC, Liu DTL, Fan DSP, **Lai WW**, So SF, Chan WM. Photodynamic therapy with Verteporfin for juxtafoveal choroidal neovascularization secondary to pathologic myopia-1-year results of a prospective series. *Eye* 2005;19(8):834-840.
  21. Lam DSC, Chan CKM, Mohamed S, Lai T, Lee VYW, **Lai WW**, Fan DS, Chan WM. Phacoemulsification with intravitreal triamcinolone in patients with cataract and coexisting diabetic macular oedema: a six-month prospective pilot study. *Eye* 2005;19(8):885-890.
  22. **Lai WW**, Chen AC, Sharma M, Lam DSC, Pulido JS. Purtscher-like retinopathy associated with acute renal allograft rejection. *Retina* 2005;25(1):85-87.
  23. **Lai WW**, Lam DS. Chloroquine induced bull's eye maculopathy. *Hong Kong Med J* 2005;11(1):55-57.
  24. Early Treatment For Retinopathy Of Prematurity Cooperative Group. The incidence and course of retinopathy of prematurity: findings from the Early Treatment for Retinopathy of Prematurity Study. *Pediatrics* 2005;116:15-23.
  25. Szlyk J, Rana R, Vajaranant TS, **Lai WW**, Pulido JS, Paliga J, Blair NP, Seiple W. Assessing responses of the macula in patients with macular holes using a new system measuring localized visual acuity and the MFERG. *Documenta Ophthalmologica* 2005;110(2-3):181-91
  26. **Lai WW**, Zhou YS, Lam DS, Freeman WR, Chow DR, Murray TG. Diagnostic and therapeutic challenges. *Retina* 2006;26(1):96-101.
  27. Buerk BM, **Lai WW**, Sharma MC, Shapiro MJ. Minimally invasive method for repair of rhegmatogenous retinal detachment following treatment for retinoblastoma. *Ophthalmic Surgery Lasers & Imaging*; 2006;37(1):82-85.
  28. Chan KP, Chu KO, **Lai WW**, Choy KW, Wang CC, Pang CP. Determination of ofloxacin and moxifloxacin and their penetration in human aqueous and vitreous humor by using HPLC-fluorescence detection. *Anal Biochem* 2006;353(1):30-36.
  29. Lam R, **Lai WW**, Cheung BT, et al. Pars plana vitrectomy and perfluoropropane (C<sub>3</sub>F<sub>8</sub>) tamponade for retinal detachment due to myopic

macular hole - a prognostic factor analysis. *Am J Ophthalmology* 2006 Dec;142(6):938-44

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31. **Lai WW**, Chu KO, Chan JP, Choy KW, Wang CC, Tsang CW, Pang CP. Differential aqueous and vitreous concentrations of topical moxifloxacin and ofloxacin after topical application one hour before vitrectomy. *Am J Ophthalmology* 2007;In print

### **BOOK CHAPTERS**

1. Rabb MF, **Lai WW**, Jennings T. Ocular angiography in uveitis. In: Tasman W, Jaeger EA, eds. *Duane's Clinical Ophthalmology* 2001 edition. Philadelphia, PA: Lippincott Williams & Wilkins, 2001, volume 4, chapter 57
2. **Lai WW**, Pulido JS. Intermediate uveitis. In: Cunningham ET, ed. *Uveitis. Ophthalmology Clinics of North America*. Philadelphia, PA: W.B. Saunders, 2002(15);309-317.
3. **Lai WW**, Goldstein DA, Tessler HH. Posterior Scleritis. In: Huang D, Kaiser P, Lowder C, Traboulsi E, eds. *Retinal Imaging*. 2006, Ch. 31.
4. Lam DSC, **Lai WW**, Tong J. Macular Surgery. In: Wu L, ed. *Clinical Macular Disease*. 2007.