

Publication list of Sentaro Kusuhara as of July 14, 2014 (Only written in English)

I. Original Articles

1. Jiang YL, Escano MF, Sasaki R, Fujii S, Kusuhara S, Matsumoto A, Sugimura K, Negi A: Ionizing radiation induces a p53-dependent apoptotic mechanism in ARPE-19 cells. *Jpn J Ophthalmol* 2004;48:106-114.
2. Kanamori A, Nakamura M, Matsui N, Nagai A, Nakanishi Y, Kusuhara S, Yamada Y, Negi A: Optical coherence tomography detects characteristic retinal nerve fiber layer thickness corresponding to band atrophy of the optic discs. *Ophthalmology* 2004;111:2278-2283.
3. Kusuhara S (corresponding author), Teraoka Escano MF, Fujii S, Nakanishi Y, Tamura Y, Nagai A, Yamamoto H, Tsukahara Y, Negi A: Prediction of postoperative visual outcome based on hole configuration by optical coherence tomography in eyes with idiopathic macular holes. *Am J Ophthalmol* 2004;138:709-716.
4. Kusuhara S (corresponding author), Nakamura M, Nagai-Kusuhara A, Nakanishi Y, Kanamori A, Negi A: Macular thickness reduction in eyes with unilateral optic atrophy detected with optical coherence tomography. *Eye (Lond)* 2006;20:882-887.
5. Uemura A, Kusuhara S, Wiegand SJ, Yu RT, Nishikawa S: Tlx acts as a proangiogenic switch by regulating extracellular assembly of fibronectin matrices in retinal astrocytes. *J Clin Invest* 2006;116:369-377.
6. Kusuhara S, Ooto S, Kimura D, Itoi K, Mukuno H, Miyamoto N, Akimoto M, Kuriyama S, Takagi H: Outcomes of 23- and 25-gauge transconjunctival sutureless vitrectomies for idiopathic macular holes. *Br J Ophthalmol* 2008;92:1261-1264.
7. Nagai-Kusuhara A, Nakamura M, Kanamori A, Nakanishi Y, Kusuhara S, Negi A: Evaluation of optic nerve head configuration in various types of optic neuropathy with Heidelberg Retina Tomograph. *Eye (Lond)* 2008;22:1154-1160.
8. Ooto S, Kimura D, Itoi K, Mukuno H, Kusuhara S, Miyamoto N, Akimoto M, Takagi H: Suprachoroidal fluid as a complication of 23-gauge vitreous surgery. *Br J Ophthalmol* 2008;92:1433-1434.
9. Tagami M, Kusuhara S (corresponding author), Honda S, Tsukahara Y, Negi A: Expression of ATP-binding cassette transporters at the inner blood-retinal barrier in a neonatal mouse model of oxygen-induced retinopathy. *Brain Res* 2009;1283:186-193.

10. Nakamura M, Kanamori A, Nagai-Kusuhara A, Kusuhara S, Yamada Y, Negi A: Serous macular detachment due to diabetic papillopathy detected using optical coherence tomography. *Arch Ophthalmol* 2009;127:105-107.
11. Honda S, Nagai T, Kondo N, Fukuda M, Kusuhara S, Tsukahara Y, Negi A: Therapeutic effect of oral bisphosphonates on choroidal neovascularization in the human eye. *J Ophthalmol* 2010;2010. pii: 206837.
12. Tagami M, Kusuhara S (corresponding author), Imai H, Uemura A, Honda S, Tsukahara Y, Negi A: MRP4 knockdown enhances migration, suppresses apoptosis, and produces aggregated morphology in human retinal vascular endothelial cells. *Biochem Biophys Res Commun* 2010;400:593-598.
13. Kishimoto H, Kusuhara S (corresponding author), Matsumiya W, Nagai T, Negi A: Retinal surface imaging provided by Cirrus high-definition optical coherence tomography prominently visualizes a dissociated optic nerve fiber layer appearance after macular hole surgery. *Int Ophthalmol* 2011;31:385-392.
14. Kusuhara S, Ooto S, Kimura D, Itoi K, Mukuno H, Miyamoto N, Akimoto M, Takagi H: Intraocular gas dynamics after 20-gauge and 23-gauge vitrectomy with sulfur hexafluoride gas tamponade. *Retina* 2011;31:250-256.
15. Matsumiya W, Honda S, Bessho H, Kusuhara S, Tsukahara Y, Negi A: Early responses to intravitreal ranibizumab in typical neovascular age-related macular degeneration and polypoidal choroidal vasculopathy. *J Ophthalmol* 2011;2011:742020.
16. Tagami M, Kusuhara S (corresponding author), Imai H, Honda S, Tsukahara Y, Negi A: Impact of intravitreal injection of tissue plasminogen activator on full-field electroretinogram in patients with macular oedema secondary to retinal vein occlusion. *Ophthalmologica* 2011;226:81-86.
17. Yanagisawa S, Kondo N, Miki A, Matsumiya W, Kusuhara S, Tsukahara Y, Honda S, Negi A: Difference between age-related macular degeneration and polypoidal choroidal vasculopathy in the hereditary contribution of the A69S variant of the age-related maculopathy susceptibility 2 gene (ARMS2). *Mol Vis* 2011;17:3574-3582.
18. Yanagisawa S, Kondo N, Miki A, Matsumiya W, Kusuhara S, Tsukahara Y, Honda S, Negi A: A common complement C3 variant is associated with protection against wet age-related macular degeneration in a Japanese population. *PLoS One* 2011;6:e28847.
19. Bessho H, Honda S, Kondo N, Kusuhara S, Tsukahara Y, Negi A: The association of CD36 variants with polypoidal choroidal vasculopathy compared to typical

- neovascular age-related macular degeneration. *Mol Vis* 2012;18:121-127.
20. Honda S, Bessho H, Kondo N, Kusuhara S, Tsukahara Y, Negi A: Positive association of CD36 gene variants with the visual outcome of photodynamic therapy in polypoidal choroidal vasculopathy. *Mol Vis* 2012;18:2796-2804.
 21. Kusuhara S, Fukushima Y, Fukuhara S, Jakt LM, Okada M, Shimizu Y, Hata M, Nishida K, Negi A, Hirashima M, Mochizuki N, Nishikawa S, Uemura A: Arhgef15 Promotes Retinal Angiogenesis by Mediating VEGF-Induced Cdc42 Activation and Potentiating RhoJ Inactivation in Endothelial Cells. *PLoS One* 2012;7:e45858.
 22. Matsumiya W, Kusuhara S (corresponding author), Hayashibe K, Maruyama K, Kusuhara H, Tagami M, Schuetz JD, Negi A: Forskolin modifies retinal vascular development in Mrp4-knockout mice. *Invest Ophthalmol Vis Sci* 2012;53:8029-8035.
 23. Matsuo M, Honda S, Matsumiya W, Kusuhara S, Tsukahara Y, Negi A: Comparison between anti-vascular endothelial growth factor therapy and photodynamic therapy for myopic choroidal neovascularization. *Eur J Ophthalmol* 2012;22:210-215.
 24. Matsumiya W, Honda S, Kusuhara S, Tsukahara Y, Negi A: Effectiveness of intravitreal ranibizumab in exudative age-related macular degeneration (AMD): comparison between typical neovascular AMD and polypoidal choroidal vasculopathy over a 1 year follow-up. *BMC Ophthalmol* 2013;13:10.
 25. Matsumiya W, Kusuhara S (corresponding author), Shimoyama T, Honda S, Tsukahara Y, Negi A: Predictive value of preoperative optical coherence tomography for visual outcome following macular hole surgery: effects of imaging alignment. *Jpn J Ophthalmol* 2013;57:308-315.
 26. Kusuhara S (corresponding author), Matsumiya W, MD, Imai H, Honda S, Tsukahara Y, Negi A: Evaluating dissociated optic nerve fiber layer appearance using *en face* layer imaging produced by optical coherence tomography. *Ophthalmologica* in press.

II. Case Reports

1. Yamamoto H, Yakushijin K, Kusuhara S, Escano MF, Nagai A, Negi A: A novel RDH5 gene mutation in a patient with fundus albipunctatus presenting with macular atrophy and fading white dots. *Am J Ophthalmol* 2003;136:572-574.
2. Imai H, Kusuhara S (corresponding author), Nakanishi Y, Teraoka Escano MF, Yamamoto H, Tsukahara Y, Negi A: A case of POEMS syndrome with cystoid macular edema. *Am J Ophthalmol* 2005;139:563-566.

3. Nagai A, Nakamura M, Kusuhara S, Kanamori A, Negi A: Unilateral manifestation of Leber's hereditary optic neuropathy after blunt ocular trauma. *Jpn J Ophthalmol* 2005;49:65-67.
4. Nakamura M, Kanamori A, Kusuhara S, Ishibashi K, Negi A: Alternate total ophthalmoplegia and optic neuropathy associated with ulcerative colitis. *Eye (Lond)* 2005;19:235-237.
5. Tatsumi Y, Kanamori A, Kusuhara A, Nakanishi Y, Kusuhara S, Nakamura M: Retinal nerve fiber layer thickness in optic tract syndrome. *Jpn J Ophthalmol* 2005;49:294-296.
6. Tagami M, Kusuhara S, Honda S, Tsukahara Y, Negi A: Rapid regression of retinal hemorrhage and neovascularization in a case of familial exudative vitreoretinopathy treated with intravitreal bevacizumab. *Graefes Arch Clin Exp Ophthalmol* 2008;246:1787-1789.
7. Matsumiya W, Honda S, Imai H, Kusuhara S, Tsukahara Y, Negi A: A Case of Bilateral Macular Holes Showing Onset and Spontaneous Closure over Very Short Intervals. *Case Report Ophthalmol* 2010;1:47-52.

III. Review

1. Kusuhara S (corresponding author), Negi A. Predicting Visual Outcome following Surgery for Idiopathic Macular Holes. *Ophthalmologica* 2014, 231:125-132.
2. Uemura A, Kusuhara S, Katsuta H, Nishikawa S: Angiogenesis in the mouse retina: a model system for experimental manipulation. *Exp Cell Res* 2006;312:676-683.