

## Publication list of Sentaro Kusuhara as of July 8, 2021 (Only written in English)

1. Yamada H, Imai H, Tetsumoto A, Hayashida M, Otsuka K, Miki A, et al. Cystotomy with or without fibrinogen clot removal for refractory cystoid macular edema secondary to branch retinal vein occlusion. *Sci Rep.* 2021;11(1):8460.
2. Sakai D, Matsumiya W, Kusuhara S, Nakamura M. Factors associated with the development of ocular candidiasis and ocular prognosis with echinocandin therapy for candidemia. *J Ophthalmic Inflamm Infect.* 2021;11(1):17.
3. Nishisho R, Kusuhara S, Sotani N, Kim KW, Katsuyama-Yoshikawa A, Matsumiya W, et al. Changes in choroidal imaging parameters following adalimumab therapy for refractory noninfectious uveitis. *Graefes Arch Clin Exp Ophthalmol.* 2021;259(5):1273-80.
4. Mimura C, Tachihara M, Kusuhara S, Fukuoka H, Nishimura Y. Complete response in a patient with lung cancer suffering from three pembrolizumab-induced immune-related adverse events including retinal vasculitis. *Respirol Case Rep.* 2021;9(4):e00730.
5. Miki A, Kusuhara S, Otsuji T, Kawashima Y, Miki K, Imai H, et al. Photodynamic therapy combined with anti-vascular endothelial growth factor therapy for pachychoroid neovascularopathy. *PLoS One.* 2021;16(3):e0248760.
6. Maki H, Mori S, Imai H, Yamada H, Otsuka K, Miki A, et al. Autologous Scleral Pocket Technique for Ahmed Glaucoma Valve Implantation with Pars Plana Tube Insertion for Neovascular Glaucoma. *J Clin Med.* 2021;10(8).
7. Kim KW, Kusuhara S, Tachihara M, Mimura C, Matsumiya W, Nakamura M. A case of panuveitis and retinal vasculitis associated with pembrolizumab therapy for metastatic lung cancer. *Am J Ophthalmol Case Rep.* 2021;22:101072.
8. Kim KW, Kusuhara S, Katsuyama-Yoshikawa A, Nobuyoshi S, Kitamura M, Mori S, et al. Changes in Gene Expression Profiling and Phenotype in Aged Multidrug Resistance Protein 4-Deficient Mouse Retinas. *Antioxidants (Basel).* 2021;10(3).
9. Ishikawa H, Uchida K, Takesue Y, Mori J, Kinoshita T, Morikawa S, et al. Clinical Characteristics and Outcomes in 314 Japanese Patients with Bacterial Endophthalmitis: A Multicenter Cohort Study from J-CREST. *Pathogens.* 2021;10(4).
10. Imai H, Tetsumoto A, Yamada H, Hayashida M, Otsuka K, Miki A, et al. Long-Term Effect of Cystotomy with or without the Fibrinogen Clot Removal for Refractory Cystoid Macular Edema Secondary to Diabetic Retinopathy. *Retina.* 2021;41(4):844-51.
11. Chubachi A, Miki A, Hayashida M, Sakamoto M, Imai H, Kusuhara S, et al. Clinical Factors Associated with Low-Contrast Visual Acuity after Reduced-Fluence Photodynamic Therapy in Patients with Resolved Central Serous Chorioretinopathy and Good Baseline Visual Acuity. *Pharmaceuticals (Basel).* 2021;14(4).
12. Shimura M, Kitano S, Muramatsu D, Fukushima H, Takamura Y, Matsumoto M, et al. Real-world management of treatment-naive diabetic macular oedema: 2-year visual outcome focusing on the starting year of intervention from STREAT-DMO study. *Br J Ophthalmol.* 2020;104(12):1755-61.
13. Shimura M, Kitano S, Muramatsu D, Fukushima H, Takamura Y, Matsumoto M, et al. Real-world management of treatment-naive diabetic macular oedema in Japan: two-year visual outcomes with and without anti-VEGF therapy in the STREAT-DME study. *Br J Ophthalmol.* 2020;104(9):1209-15.
14. Sakai D, Matsumiya W, Kusuhara S, Nakamura M. The choroidal structure changes in a case with hypertensive choroidopathy. *Am J Ophthalmol Case Rep.* 2020;18:100710.
15. Morioka M, Takamura Y, Nagai K, Yoshida S, Mori J, Takeuchi M, et al. Incidence of endophthalmitis after intravitreal injection of an anti-VEGF agent with

or without topical antibiotics. *Sci Rep.* 2020;10(1):22122.

16. Mori S, Kurimoto T, Miki A, Maeda H, Kusuhara S, Nakamura M. Aqp9 Gene Deletion Enhances Retinal Ganglion Cell (RGC) Death and Dysfunction Induced by Optic Nerve Crush: Evidence that Aquaporin 9 Acts as an Astrocyte-to-Neuron Lactate Shuttle in Concert with Monocarboxylate Transporters To Support RGC Function and Survival. *Mol Neurobiol.* 2020;57(11):4530-48.
17. Kusuhara S, Nakamura M. Ripasudil Hydrochloride Hydrate in the Treatment of Glaucoma: Safety, Efficacy, and Patient Selection. *Clin Ophthalmol.* 2020;14:1229-36.
18. Katsuyama A, Kusuhara S, Asahara SI, Nakai SI, Mori S, Matsumiya W, et al. En face slab optical coherence tomography imaging successfully monitors progressive degenerative changes in the innermost layer of the diabetic retina. *BMJ Open Diabetes Res Care.* 2020;8(1).
19. Imai H, Tetsumoto A, Inoue S, Takano F, Yamada H, Hayashida M, et al. Intraoperative Three-Dimensional Fluorescein Angiography-Guided Pars Plana Vitrectomy for the Treatment of Proliferative Diabetic Retinopathy: The Maximized Utility of the Digital Assisted Vitrectomy. *Retina.* 2020.
20. Hayashida M, Miki A, Nakai S, Matsumiya W, Imai H, Kusuhara S, et al. Predictive factors of metamorphopsia after reduced-fluence photodynamic therapy in patients with central serous chorioretinopathy with good baseline visual acuity. *PLoS One.* 2020;15(10):e0240557.
21. Hayashida M, Miki A, Nakai S, Matsumiya W, Imai H, Kusuhara S, et al. Genetic factors associated with treatment response to reduced-fluence photodynamic therapy for chronic central serous chorioretinopathy. *Mol Vis.* 2020;26:505-9.
22. Fukui T, Hosotani S, Soda I, Ozawa T, Kusuhara S, Kakegawa MI, et al. Current status and progress of concurrent chemoradiotherapy in patients with locally advanced non-small cell lung cancer prior to the approval of durvalumab. *Thorac Cancer.* 2020;11(4):1005-14.
23. Shirasawa M, Fukui T, Kusuhara S, Hiyoshi Y, Nakahara Y, Nishinarita N, et al. Efficacy and risk of cytotoxic chemotherapy in extensive disease-small cell lung cancer patients with interstitial pneumonia. *BMC Cancer.* 2019;19(1):163.
24. Shirasawa M, Fukui T, Kusuhara S, Harada S, Nishinarita N, Hiyoshi Y, et al. Prognostic differences between oligometastatic and polymetastatic extensive disease-small cell lung cancer. *PLoS One.* 2019;14(4):e0214599.
25. Sakamoto M, Mori S, Ueda K, Kurimoto T, Kusuhara S, Yamada-Nakanishi Y, et al. En Face Slab Images Visualize Nerve Fibers With Residual Visual Sensitivity in Significantly Thinned Macular Areas of Advanced Glaucomatous Eyes. *Invest Ophthalmol Vis Sci.* 2019;60(8):2811-21.
26. Nagano C, Nozu K, Yamamura T, Minamikawa S, Fujimura J, Sakakibara N, et al. TGFBI-associated corneal dystrophy and nephropathy: a novel syndrome? *CEN Case Rep.* 2019;8(1):14-7.
27. Kimura M, Kusuhara S, Tagami M, Nakamura M. Impaired Retinal Circulation during Axitinib Treatment for Metastatic Renal Cell Carcinoma. *Case Rep Ophthalmol.* 2019;10(1):5-10.
28. Katsuyama A, Kusuhara S, Nishisho R, Matsumiya W, Azumi A, Nakamura M. Long-term efficacy and safety of infliximab and cyclosporine combination therapy for refractory uveoretinitis in Behcet's disease. *Clin Ophthalmol.* 2019;13:521-7.
29. Katsuyama A, Kusuhara S, Awano H, Nagase H, Matsumiya W, Nakamura M. A case of probable Vogt-Koyanagi-Harada disease in a 3-year-old girl. *BMC Ophthalmol.* 2019;19(1):179.
30. Kusuhara S, Katsuyama A, Matsumiya W, Nakamura M. Efficacy and safety of ripasudil, a Rho-associated kinase inhibitor, in eyes with uveitic glaucoma. *Graefes Arch Clin Exp Ophthalmol.* 2018;256(4):809-14.
31. Kusuhara S, Fukushima Y, Ogura S, Inoue N, Uemura A. Pathophysiology of Diabetic Retinopathy: The Old and the New. *Diabetes Metab J.* 2018;42(5):364-76.
32. Komaki R, Ueda T, Tsuji Y, Miyawaki T, Kusuhara S, Hara S, et al. [Retinal

- vasculopathy with cerebral leukoencephalopathy carrying TREX1 mutation diagnosed by the intracranial calcification: a case report]. *Rinsho Shinkeigaku*. 2018;58(2):111-7.
33. Ogura S, Kurata K, Hattori Y, Takase H, Ishiguro-Oonuma T, Hwang Y, et al. Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown. *JCI Insight*. 2017;2(3):e90905.
  34. Matsumiya W, Honda S, Otsuka K, Miki A, Nagai T, Imai H, et al. One-year outcome of combination therapy with intravitreal aflibercept and verteporfin photodynamic therapy for polypoidal choroidal vasculopathy. *Graefes Arch Clin Exp Ophthalmol*. 2017;255(3):541-8.
  35. Honda S, Miki A, Kusuhara S, Imai H, Nakamura M. Choroidal Thickness of Central Serous Chorioretinopathy Secondary to Corticosteroid Use. *Retina*. 2017;37(8):1562-7.
  36. Miyake M, Yamashiro K, Tabara Y, Suda K, Morooka S, Nakanishi H, et al. Identification of myopia-associated WNT7B polymorphisms provides insights into the mechanism underlying the development of myopia. *Nat Commun*. 2015;6:6689.
  37. Matsumiya W, Honda S, Otsuka K, Miki A, Nagai T, Imai H, et al. Comparison of the Effectiveness and Prognostic Factors of Intravitreal Ranibizumab between Typical Neovascular Age-Related Macular Degeneration and Polypoidal Choroidal Vasculopathy over 24 Months of Follow-Up. *Ophthalmologica*. 2015;234(1):33-9.
  38. Tagami M, Matsumiya W, Imai H, Kusuhara S, Honda S, Azumi A. Autologous antibodies to outer retina in acute zonal occult outer retinopathy. *Jpn J Ophthalmol*. 2014;58(6):462-72.
  39. Kusuhara S, Negi A. Predicting visual outcome following surgery for idiopathic macular holes. *Ophthalmologica*. 2014;231(3):125-32.
  40. Kusuhara S, Matsumiya W, 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*. 2014;232(3):170-8.
  41. Matsumiya W, Kusuhara S, 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(3):308-15.
  42. 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.
  43. 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(2):210-5.
  44. Matsumiya W, Kusuhara S, Yamada Y, Azumi A, Negi A. Sweet's syndrome with panuveitis resembling Behcet's disease. *Jpn J Ophthalmol*. 2012;56(3):268-72.
  45. Matsumiya W, Kusuhara S, Hayashibe K, Maruyama K, Kusuhara H, Tagami M, et al. Forskolin modifies retinal vascular development in Mrp4-knockout mice. *Invest Ophthalmol Vis Sci*. 2012;53(13):8029-35.
  46. Kusuhara S, Fukushima Y, Fukuhara S, Jakt LM, Okada M, Shimizu Y, et al. Arhgef15 promotes retinal angiogenesis by mediating VEGF-induced Cdc42 activation and potentiating RhoJ inactivation in endothelial cells. *PLoS One*. 2012;7(9):e45858.
  47. 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;18:2796-804.
  48. 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;18:121-7.
  49. Yanagisawa S, Kondo N, Miki A, Matsumiya W, Kusuhara S, Tsukahara Y, et

- al. A common complement C3 variant is associated with protection against wet age-related macular degeneration in a Japanese population. *PLoS One*. 2011;6(12):e28847.
50. Yanagisawa S, Kondo N, Miki A, Matsumiya W, Kusuhara S, Tsukahara Y, et al. 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;17:3574-82.
51. Tagami M, Kusuhara S, 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(2):81-6.
52. 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.
53. Kusuhara S, Ooto S, Kimura D, Itoi K, Mukuno H, Miyamoto N, et al. Intraocular gas dynamics after 20-gauge and 23-gauge vitrectomy with sulfur hexafluoride gas tamponade. *Retina*. 2011;31(2):250-6.
54. Kishimoto H, Kusuhara S, 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(5):385-92.
55. Tagami M, Kusuhara S, Imai H, Uemura A, Honda S, Tsukahara Y, et al. MRP4 knockdown enhances migration, suppresses apoptosis, and produces aggregated morphology in human retinal vascular endothelial cells. *Biochem Biophys Res Commun*. 2010;400(4):593-8.
56. 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 Rep Ophthalmol*. 2010;1(2):47-52.
57. Honda S, Nagai T, Kondo N, Fukuda M, Kusuhara S, Tsukahara Y, et al. Therapeutic effect of oral bisphosphonates on choroidal neovascularization in the human eye. *J Ophthalmol*. 2010;2010.
58. Tagami M, Kusuhara S, 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;1283:186-93.
59. 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(1):105-7.
60. 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(12):1787-9.
61. Ooto S, Kimura D, Itoi K, Mukuno H, Kusuhara S, Miyamoto N, et al. Suprachoroidal fluid as a complication of 23-gauge vitreous surgery. *Br J Ophthalmol*. 2008;92(10):1433-4.
62. 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(9):1154-60.
63. Kusuhara S, Ooto S, Kimura D, Itoi K, Mukuno H, Miyamoto N, et al. Outcomes of 23- and 25-gauge transconjunctival sutureless vitrectomies for idiopathic macular holes. *Br J Ophthalmol*. 2008;92(9):1261-4.
64. 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(2):369-77.
65. Uemura A, Kusuhara S, Katsuta H, Nishikawa S. Angiogenesis in the mouse retina: a model system for experimental manipulation. *Exp Cell Res*. 2006;312(5):676-83.
66. Kusuhara S, 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(8):882-7.
67. 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(4):294-6.
68. Nakamura M, Kanamori A, Kusuhara S, Ishibashi K, Negi A. Alternate total ophthalmoplegia and optic neuropathy associated with ulcerative colitis. *Eye (Lond)*. 2005;19(2):235-7.
69. 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(1):65-7.
70. Imai H, Kusuhara S, Nakanishi Y, Teraoka Escano MF, Yamamoto H, Tsukahara Y, et al. A case of POEMS syndrome with cystoid macular edema. *Am J Ophthalmol*. 2005;139(3):563-6.
71. Kusuhara S, Teraoka Escano MF, Fujii S, Nakanishi Y, Tamura Y, Nagai A, et al. Prediction of postoperative visual outcome based on hole configuration by optical coherence tomography in eyes with idiopathic macular holes. *Am J Ophthalmol*. 2004;138(5):709-16.
72. Kanamori A, Nakamura M, Matsui N, Nagai A, Nakanishi Y, Kusuhara S, et al. Optical coherence tomography detects characteristic retinal nerve fiber layer thickness corresponding to band atrophy of the optic discs. *Ophthalmology*. 2004;111(12):2278-83.
73. Jiang YL, Escano MF, Sasaki R, Fujii S, Kusuhara S, Matsumoto A, et al. Ionizing radiation induces a p53-dependent apoptotic mechanism in ARPE-19 cells. *Jpn J Ophthalmol*. 2004;48(2):106-14.
74. 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(3):572-4.