

Publication list of Hisanori Imai as of July 08, 2021 (Only written in English)

I. Original Articles

- 1: Sugimoto M, Kondo M, Yasuma T, D'Alessandro-Gabazza CN, Toda M, **Imai H**, Nakamura M, Gabazza EC. Increased expression of Protein S in eyes with diabetic retinopathy and diabetic macular edema. *Sci Rep.* 2021;11(1):10449. doi: 10.1038/s41598-021-89870-5.
- 2: Yamada H, **Imai H**, Tetsumoto A, Hayashida M, Otsuka K, Miki A, Kusuhara S, Nakamura M. Cystotomy with or without fibrinogen clot removal for refractory cystoid macular edema secondary to branch retinal vein occlusion. *Sci Rep.* 2021;11(1):8460. doi: 10.1038/s41598-021-88149-z.
- 3: Maki H, Mori S, **Imai H**, Yamada H, Otsuka K, Miki A, Kusuhara S, Nakamura M. Autologous Scleral Pocket Technique for Ahmed Glaucoma Valve Implantation with Pars Plana Tube Insertion for Neovascular Glaucoma. *J Clin Med.* 2021;10(8):1606. doi: 10.3390/jcm10081606.
- 4: **Imai H**, Tetsumoto A, Yamada H, Hayashida M, Otsuka K, Miki A, Kusuhara S, Nakamura M. 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):844-851. doi: 10.1097/IAE.0000000000002921.
- 5: Chubachi A, Miki A, Hayashida M, Sakamoto M, **Imai H**, Kusuhara S, Nakamura M. 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):303. doi: 10.3390/ph14040303.
- 6: Kim KW, Kusuhara S, Katsuyama-Yoshikawa A, Nobuyoshi S, Kitamura M, Mori S, Sotani N, Ueda K, Matsumiya W, Miki A, Kurimoto T, **Imai H**, Nakamura M. Changes in Gene Expression Profiling and Phenotype in Aged Multidrug Resistance Protein 4-Deficient Mouse Retinas. *Antioxidants (Basel).* 2021;10(3):455. doi: 10.3390/antiox10030455.
- 7: Zolov SN, **Imai H**, Losiewicz MK, Singh RSJ, Fort PE, Gardner TW. Insulin-like growth factor-2 regulates basal retinal insulin receptor activity. *J Biol Chem.* 2021;296:100712. doi: 10.1016/j.jbc.2021.100712.
- 8: Miki A, Kusuhara S, Otsuji T, Kawashima Y, Miki K, **Imai H**, Nakamura M, Tsujikawa A. Photodynamic therapy combined with anti-vascular endothelial growth factor therapy for pachychoroid neovascularopathy. *PLoS One.* 2021;16(3):e0248760. doi: 10.1371/journal.pone.0248760.
- 9: **Imai H**, Tetsumoto A, Yamada H, Nakamura M. Impact of different manufacturers and gauge sizes on the performance of backflush needle. *Sci Rep.* 2020;10(1):21452. doi: 10.1038/s41598-020-78668-6.
- 10: **Imai H**, Tetsumoto A, Inoue S, Takano F, Yamada H, Hayashida M, Otsuka K, Miki A, Kusuhara S, Nakamura M. 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. doi: 10.1097/IAE.0000000000002805. Epub ahead of print.
- 11: Matsumae H, Morizane Y, Yamane S, Yanagisawa S, Sakurai T, Kobori A, **Imai H**, Kanzaki Y, Suzuki E, Kadonosono K, Hayashi A, Shiraga F, Kuriyama S. Inverted Internal Limiting Membrane Flap versus Internal Limiting Membrane Peeling for Macular Hole Retinal Detachment in High Myopia. *Ophthalmol Retina.* 2020;4(9):919-926. doi: 10.1016/j.oret.2020.03.021.
- 12: Katsuyama A, Kusuhara S, Asahara SI, Nakai SI, Mori S, Matsumiya W, Miki A, Kurimoto T, **Imai H**, Kido Y, Ogawa W, Nakamura M. 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):e001120. doi: 10.1136/bmjdr-2019-001120.
- 13: Hayashida M, Miki A, Nakai S, Matsumiya W, **Imai H**, Kusuhara S, Nakamura M. 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. doi: 10.1371/journal.pone.0240557.
- 14: Hayashida M, Miki A, Nakai S, Matsumiya W, Imai H, Kusuvara S, Honda S, Nakamura M. Genetic factors associated with treatment response to reduced-fluence photodynamic therapy for chronic central serous chorioretinopathy. Mol Vis. 2020;26:505-509.
 - 15: Imai H, Otsuka K, Tetsumoto A, Miki A, Nakamura M. EFFECTIVENESS OF EN BLOC REMOVAL OF FIBRINOGEN-RICH COMPONENT OF CYSTOID LESION FOR THE TREATMENT OF CYSTOID MACULAR EDEMA. Retina. 2020;40(1):154-159. doi: 10.1097/IAE.0000000000002359.
 - 16: Tetsumoto A, Imai H, Hayashida M, Otsuka K, Matsumiya W, Miki A, Nakamura M. The comparison of the surgical outcome of 27-gauge pars plana vitrectomy for primary rhegmatogenous retinal detachment between air and SF6 gas tamponade. Eye (Lond). 2020;34(2):299-306. doi: 10.1038/s41433-019-0726-2.
 - 17: Shinkai Y, Oshima Y, Yoneda K, Kogo J, Imai H, Watanabe A, Matsui Y, Suzuki K, Sotozono C; 27G Vitrectomy Study Group. Multicenter survey of sutureless 27-gauge vitrectomy for primary rhegmatogenous retinal detachment: a consecutive series of 410 cases. Graefes Arch Clin Exp Ophthalmol. 2019;257(12):2591-2600. doi: 10.1007/s00417-019-04448-2.
 - 18: Tetsumoto A, Imai H, Otsuka K, Matsumiya W, Miki A, Nakamura M. Clinical factors contributing to postoperative aqueous flare intensity after 27-gauge pars plana vitrectomy for the primary rhegmatogenous retinal detachment. Jpn J Ophthalmol. 2019;63(4):317-321. doi: 10.1007/s10384-019-00672-9.
 - 19: Hayashida M, Miki A, Imai H, Otsuka K, Azumi A, Nakamura M. Impact of Early Vitrectomy for Dense Vitreous Hemorrhage of Unknown Etiology. Ophthalmologica. 2019;242(4):234-238. doi: 10.1159/000501723.
 - 20: Otsuka K, Imai H, Fujii A, Miki A, Tagami M, Azumi A, Nakamura M. Comparison of 25- and 27-Gauge Pars Plana Vitrectomy in Repairing Primary Rhegmatogenous Retinal Detachment. J Ophthalmol. 2018;2018:7643174. doi: 10.1155/2018/7643174.
 - 21: Honda S, Miki A, Kusuvara S, Imai H, Nakamura M. CHOROIDAL THICKNESS OF CENTRAL SEROUS CHORIORETINOPATHY SECONDARY TO CORTICOSTEROID USE. Retina. 2017;37(8):1562-1567. doi: 10.1097/IAE.0000000000001380.
 - 22: Otsuka K, Imai H, Miki A, Nakamura M. Impact of postoperative positioning on the outcome of pars plana vitrectomy with gas tamponade for primary rhegmatogenous retinal detachment: comparison between supine and prone positioning. Acta Ophthalmol. 2018;96(2):e189-e194. doi: 10.1111/aos.13482.
 - 23: Ubukata Y, Imai H, Otsuka K, Nishizaki M, Hara R, Uenishi M, Azumi A, Nakamura M. The Comparison of the Surgical Outcome for the Full-Thickness Macular Hole with/without Lamellar Hole-Associated Epiretinal Proliferation. J Ophthalmol. 2017;2017:9640756. doi: 10.1155/2017/9640756.
 - 24: Matsumiya W, Honda S, Otsuka K, Miki A, Nagai T, Imai H, Kusuvara S, Nakamura M. 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):541-548. doi: 10.1007/s00417-016-3500-1.
 - 25: Imai H, Fujii A, Tani E, Azumi A. Wound Integrity of 2.0 mm Transconjunctival Single-Plane Sclerocorneal Incision: A Comparison between a Motorized Injector with/without Pause Time and a Manual Injector. J Ophthalmol. 2016;2016:8129298. doi: 10.1155/2016/8129298.
 - 26: Imai H, Misra GP, Wu L, Janagam DR, Gardner TW, Lowe TL. Subconjunctivally Implanted Hydrogels for Sustained Insulin Release to Reduce Retinal Cell Apoptosis in Diabetic Rats. Invest Ophthalmol Vis Sci. 2015;56(13):7839-46. doi: 10.1167/iov.15-16998.

- 27: ***Imai H***, Tagami M, Azumi A. Scleral buckling for primary Rhegmatogenous retinal detachment using noncontact wide-angle viewing system with a cannula- based 25 G chandelier endoillumination. Clin Ophthalmol. 2015;9:2103-7. doi: 10.2147/OPTH.S91339.
- 28: Matsumiya W, Honda S, Otsuka K, Miki A, Nagai T, ***Imai H***, Kusuha S, Nakamura M. 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. doi: 10.1159/000431000.
- 29: Tagami M, Matsumiya W, ***Imai H***, Kusuha S, Honda S, Azumi A. Autologous antibodies to outer retina in acute zonal occult outer retinopathy. Jpn J Ophthalmol. 2014;58(6):462-72. doi: 10.1007/s10384-014-0347-z.
- 30: Fujii A, ***Imai H***, Kanai M, Azumi A. Effect of intravitreal aflibercept injection for age-related macular degeneration with a retinal pigment epithelial tear refractory to intravitreal ranibizumab injection. Clin Ophthalmol. 2014;8:1199-202. doi: 10.2147/OPTH.S65810.
- 31: Kaiser JM, ***Imai H***, Haakenson JK, Brucklacher RM, Fox TE, Shanmugavelandy SS, Unrath KA, Pedersen MM, Dai P, Freeman WM, Bronson SK, Gardner TW, Kester M. Nanoliposomal minocycline for ocular drug delivery. Nanomedicine. 2013;9(1):130-40. doi: 10.1016/j.nano.2012.03.004.
- 32: Bessho H, Honda S, ***Imai H***, Negi A. Natural course and funduscopy findings of polypoidal choroidal vasculopathy in a Japanese population over 1 year of follow-up. Retina. 2011;31(8):1598-602. doi: 10.1097/IAE.0b013e31820d3f28.
- 33: Tagami M, Kusuha 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. doi: 10.1159/000326242.
- 34: Tagami M, Kusuha S, ***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(4):593-8. doi: 10.1016/j.bbrc.2010.08.109.
- 35: Honda S, ***Imai H***, Yamashiro K, Kurimoto Y, Kanamori-Matsui N, Kagotani Y, Tamura Y, Yamamoto H, Ohoto S, Takagi H, Uenishi M, Negi A. Comparative assessment of photodynamic therapy for typical age-related macular degeneration and polypoidal choroidal vasculopathy: a multicenter study in Hyogo prefecture, Japan. Ophthalmologica. 2009;223(5):333-8. doi: 10.1159/000221837.
- 36: Nagai T, ***Imai H***, Honda S, Negi A. Antiangiogenic effects of bisphosphonates on laser-induced choroidal neovascularization in mice. Invest Ophthalmol Vis Sci. 2007;48(12):5716-21. doi: 10.1167/iovs.07-1023.
- 37: ***Imai H***, Honda S, Kondo N, Ishibashi K, Tsukahara Y, Negi A. The upregulation of angiogenic gene expression in cultured retinal pigment epithelial cells grown on type I collagen. Curr Eye Res. 2007;32(10):903-10. doi: 10.1080/02713680701604749.
- 38: Tsukahara Y, Honda S, ***Imai H***, Kondo N, Fujii S, Yokoyama N, Hirata A, Kawaji T, Fukushima M, Tanihara H, Negi A. Autologous plasmin-assisted vitrectomy for stage 5 retinopathy of prematurity: a preliminary trial. Am J Ophthalmol. 2007;144(1):139-41. doi: 10.1016/j.ajo.2007.03.020.
- 39: ***Imai H***, Honda S, Nakanishi Y, Yamamoto H, Tsukahara Y, Negi A. Different transitions of multifocal electroretinogram recordings between patients with age-related macular degeneration and polypoidal choroidal vasculopathy after photodynamic therapy. Br J Ophthalmol. 2006;90(12):1524-30. doi: 10.1136/bjo.2006.092783.

II. Case reports

- 1: Sakai D, ***Imai H***, Nakamura M. Multiple Intravitreal Liposomal Amphotericin B for a Case of Candida

- glabrata Endophthalmitis. Case Rep Ophthalmol 2021;12(2):485–491. doi: 10.1159/000511594.
- 2: Maki H, Imai H, Yamada H, Tetsumoto A, Hayashida M, Otsuka K, Miki A, Nakamura M. The long-term effect of cystotomy with fibrinogen clot removal for a cystoid macular edema secondary to idiopathic macular telangiectasia type 1: a case report. Retin Cases Brief Rep. 2021; Publish Ahead of Print. doi: 10.1097/ICB.0000000000001117. Epub ahead of print.
 - 3: Imai H, Tetsumoto A, Yamada H, Hayashida M, Otsuka K, Miki A, Nakamura M. Intraoperative three-dimensional fluorescein angiography-guided pars plana vitrectomy for branch retinal vein occlusion. Retin Cases Brief Rep. 2020. doi: 10.1097/ICB.0000000000001091. Epub ahead of print.
 - 4: Inoue S, Imai H, Tetsumoto A, Otsuka K, Nakamura M. A Rare Case of Lens- Induced Uveitis with Proliferative Vitreoretinopathy and Massive Encapsulation of Fallen Nuclear Material. Case Rep Ophthalmol. 2020;11(2):436-441. doi: 10.1159/000508913.
 - 5: Tetsumoto A, Imai H, Miki A, Nakamura M. A CASE OF RETINAL METASTASIS OF LARYNGEAL SQUAMOUS CELL CARCINOMA WITH HISTOPATHOLOGIC CONFIRMATION BY VITRECTOMY-ASSISTED EN BLOCK EXTRACTION. Retin Cases Brief Rep. 2020;14(2):127-130. doi: 10.1097/ICB.0000000000000666.
 - 6: Obata S, Miki A, Imai H, Nakamura M. Bilateral corneal denting after surgery under general anesthesia: A case report. Am J Ophthalmol Case Rep. 2018;10:290-292. doi: 10.1016/j.ajoc.2018.04.011.
 - 7: Iwakawa Y, Imai H, Kaji H, Mori Y, Ono C, Otsuka K, Miki A, Oishi M. Autologous Transplantation of the Internal Limiting Membrane for Refractory Macular Hole following Ruptured Retinal Arterial Macroaneurysm: A Case Report. Case Rep Ophthalmol. 2018;9(1):113-119. doi: 10.1159/000485914.
 - 8: Fukumoto T, Oka M, Masaki T, Sakaguchi M, Fukunaga A, Norose K, Sarayama Y, Imai H, Nishigori C. Cutaneous Rosai-Dorfman disease associated with uveitis. Eur J Dermatol. 2017;27(1):85-86. doi: 10.1684/ejd.2016.2885.
 - 9: Bessho H, Imai H, Azumi A. The Histopathological Finding of the Surgically Extracted Atypical Dome-Shaped Choroidal Osteoma. Case Rep Ophthalmol Med. 2017;2017:2874823. doi: 10.1155/2017/2874823.
 - 10: Imai H, Azumi A. The Expansion of RPE Atrophy after the Inverted ILM Flap Technique for a Chronic Large Macular Hole. Case Rep Ophthalmol. 2014;5(1):83-6. doi: 10.1159/000360693.
 - 11: Shimoyama T, Imai H, Honda S, Negi A. A case of choroidal neovascularization secondary to unilateral retinal pigment epithelium dysgenesis. Case Rep Ophthalmol. 2014;5(1):34-7. doi: 10.1159/000358426.
 - 12: Otsuka K, Imai H, Shimoyama T, Nagai T, Honda S, Azumi A. Recurrence of macular hole retinal detachment after intravitreal ranibizumab injection for the treatment of choroidal neovascularization from the remaining macular hole edge. Case Rep Ophthalmol. 2012;3(3):424-7. doi: 10.1159/000346041.
 - 13: Imai H, Honda S, Tsukahara Y, Negi A. Macular edema formation and deterioration of retinal function after intravitreal bevacizumab injection for proliferative diabetic retinopathy. Case Rep Ophthalmol. 2011;2(3):314-8. doi: 10.1159/000332830.
 - 14: Matsumiya W, Honda S, Imai H, Kusuhaara 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. doi: 10.1159/000320586.
 - 15: Imago M, Imai H, Nakanishi Y, Azumi A. Optical coherence tomography for monitoring the process of Candida endophthalmitis. Acta Ophthalmol. 2009;87(6):680-2. doi: 10.1111/j.1755-3768.2008.01297.x.
 - 16: Imai H, Azumi A, Nagai T, Yamamoto H, Negi A, Ohbayashi C. A case of ocular toxoplasmosis: direct proof of the protozoan infection by retinal biopsy. Retin Cases Brief Rep. 2008;2(1):76-9. doi:

10.1097/01.iae.0000249391.22195.bd.

- 17: ***Imai H***, Kusahara S, Nakanishi Y, Teraoka Escaño MF, Yamamoto H, Tsukahara Y, Negi A. A case of POEMS syndrome with cystoid macular edema. Am J Ophthalmol. 2005;139(3):563-6. doi: 10.1016/j.ajo.2004.09.016.

III. Review Article

- 1: ***Imai H***, Singh RSJ, Fort PE, Gardner TW. Neuroprotection for diabetic retinopathy. Dev Ophthalmol. 2009;44:56-68. doi: 10.1159/000223946.