

兼子 裕規 (かねこ ひろき)

Hiroki Kaneko, MD, PhD

名古屋大学大学院医学系研究科眼科 講師

Assistant Professor

Nagoya University Graduate School of Medicine

65 Tsurumai-cho, Showa-ku

Nagoya, 466-8550, Japan

+81-52-744-2277

h-kaneko@med.nagoya-u.ac.jp



<履歴>

2002/03 名古屋大学医学部卒業 (医師免許取得)
2008/03 名古屋大学大学院医学系研究科修了 (医学博士取得)
2008/04 アメリカケンタッキー大学眼科 Research Fellow
2012/10 名古屋大学医学部附属病院眼科助教
2014/08 名古屋大学大学院医学系研究科眼科学助教
2016/05 名古屋大学医学部附属病院眼科病院講師
2020/05 名古屋大学医学部附属病院眼科講師

<資格>

2002/05/09 医籍登録(01426081)
2008/03 医学博士取得
2011/08 日本眼科学会認定専門医
2013/03 眼科 PDT 研究会講習修了

<所属学会>

日本眼科学会
日本網膜硝子体学会
日本糖尿病眼学会
日本眼科手術学会
日本眼科 AI 学会
Association for Research in Vision and Ophthalmology (ARVO)

<Educational Training>

1996/04-2002/03 Nagoya University School of Medicine, Nagoya, Japan
M.D. Medicine

2004/04-2008/03 Nagoya University Graduate School of Medicine, Nagoya, Japan
Ph.D. Medicine

<Positions and Employment>

2001/05-2003/03 Resident Medicine Nishio Municipal Hospital, Aichi, Japan
2003/4-2004/03 Resident Ophthalmology Nishio Municipal Hospital, Aichi, Japan
2004/04-2008/03 Clinical & Research Fellowship Retina Nagoya University
Graduate School of Medicine
2008/04-2010/12 Postdoctoral Fellow Ophthalmology & Visual Sciences University of
Kentucky USA
2011/1-2012/9 Division Chief in Ophthalmology, Yokkaichi Municipal Hospital,
Mie, Japan
2012/10- Assistant Professor, Dept. of Ophthalmology, Nagoya University
Graduate School of Medicine, Nagoya, Japan

<Other Experience and Professional Memberships>

2003- Member, Japanese Ophthalmological Society (JOS)
2005- Member, Japanese Retina and Vitreous Society
2006- Member, Association for Research in Vision and Ophthalmology (ARVO)
2011- Certified Board Member, JOS
2012- Member, Japanese Society of Ophthalmic Surgeons

<Honors and Awards>

2008 Santen Pharmaceutical Travel Grant, (ARVO)
2012 Wakamoto Conference of Advanced Medicine of Ophthalmology in Tokyo, Gold
Award
2013 Grant-in-Aid for Young Scientists (A) & Grant-in-Aid for Challenging
Exploratory Research from the Japan Society for the Promotion of Science
Chukyo Longevity Medical and Promotion Foundation
2014 Takeda Science Foundation
Yokoyama Foundation for Clinical Pharmacology (YRY1411)

<研究費・助成金>

平成 25 年度-27 年度 日本学術振興会 若手研究(A) 研究課題番号: 25713056
(2013/4/1-2017/3/31)

平成 25 年度-26 年度 日本学術振興会 挑戦の萌芽研究 研究課題番号: 20647458
(2013/4/1-2016/3/31)

平成 29 年度-30 年度 日本学術振興会 若手研究(B) 研究課題番号: 17K16963
(2017/4/1-2019/3/31)

平成 31 (令和元) 年度-令和 3 年度 日本学術振興会 基盤研究(C) 研究課題番号:
19K09988 (2019/4/1-2022/3/31)

<助成金>

2013 年 一般財団法人中京長寿医療研究推進団 第 1 回医学研究助成金 (H26 年
度)

日比野基金医学海外研究交流助成

2014 年 一般財団法人横山臨床薬理研究助成基金 (H26 年度)

一般財団法人共済団医学研究奨励助成金

一般財団法人代謝異常治療研究基金

公益財団法人武田科学振興財団医学系研究奨励 (臨床)

公益財団法人難病医学研究財団医学研究奨励助成

2015 年 公益財団法人上原記念生命科学財団研究助成 (研究奨励金)

2016 年 一般財団法人中京長寿医療研究推進団 第 4 回医学研究助成金

一般財団法人伊藤忠兵衛基金学術研究助成

名古屋大学医学部附属病院先端研究支援

公益信託三島濟一記念眼科研究国際交流基金

2017 年 第 26 回公益財団法人堀科学芸術振興財団・第 4 部研究助成

公益財団法人豊秋奨学会 平成 29 年度海外渡航旅費助成

2018 年 公益財団法人武田科学振興財団ビジョナリーリサーチ (スタート)

公益財団法人高齢者眼疾患研究財団 2018 年度研究助成

2020 年 2019 年度参天製薬創業者記念眼科医学研究基金

公益財団法人市原国際奨学財団 2020 年度研究助成

愛知健康推進財団 2020 年度研究助成

2021 年 エイエムオー・ジャパン株式会社契約研究助成金

<Grants>

平成 25 年度-27 年度 日本学術振興会 若手研究(A) 研究課題番号: 25713056
(2013/4/1-2017/3/31)

Japan Society for the Promotion of Science, Grant-in-Aid for Young Scientists (A), Project ID:
25713056, (2013/4/1-2017/3/31)

“萎縮型加齢黄斑変性のモデルマウス確立と、その病態の解明”

英題（自作）”Elucidation of the pathogenesis of dry age-related macular degeneration by generating new model mouse”

平成 25 年度-26 年度 日本学術振興会 挑戦的萌芽研究 研究課題番号: 20647458 (2013/4/1-2016/3/31)

Japan Society for the Promotion of Science, Grant-in-Aid for challenging Exploratory Research, Project ID: 20647458, (2013/4/1-2016/3/31)

“抗アレルギー治療は滲出型加齢黄斑変性に対する新たな治療法になりえるのか？”

英題（自作）”New therapeutic possibility of anti-allergic drugs for wet age-related macular degeneration”

平成 29 年度-30 年度 日本学術振興会 若手研究(B) 研究課題番号: 17K16963 (2017/4/1-2019/3/31)

Japan Society for the Promotion of Science, Grant-in-Aid for Young Scientists(B), Project ID: 17K16963

“難治性網膜疾患の進行防止と、VEGF に依存しない追加治療法の充実”

平成 31（令和元）年度-令和 3 年度 日本学術振興会 基盤研究(C) 研究課題番号: 19K09988 (2019/4/1-2022/3/31)

Japan Society for the Promotion of Science, Grant-in-Aid for Scientific Research (C) (H.K., 19K09988) from JSPS KAKENHI (<http://www.jsps.go.jp/>)

“原因不明のシリコーンオイル関連視力低下(SORVL)は完全に予防できるのか？”

受賞歴

2015 年	名古屋大学医師会研究奨励賞
2016 年	日本眼科学会学術奨励賞
2016 年	日本網膜硝子体学会第 9 回田野 Young Investigator's Award
2018 年	第 23 回 ROHTO 賞
2020 年	第 5 回バイエルレチナアワード

Biography

International

1. **Kaneko H***, Matsuzaki S, Okazaki Y, Kudo D.
“Polymerase chain reaction during the treatment of acute retinal necrosis.”
Jpn J Ophthalmol. 2005;49(1):63-4. (*Corresponding author) (査読あり)
2. Nishiguchi KM, Nakamura M, **Kaneko H**, Kachi S, Terasaki H.
“The role of VEGF and VEGFR2/Flk1 in proliferation of retinal progenitor cells in murine retinal degeneration.”
Invest Ophthalmol Vis Sci. 2007;48(9):4315-20. (査読あり)
3. Nishiguchi KM, **Kaneko H**, Nakamura M, Kachi S, Terasaki H.
“Identification of photoreceptor precursors in the pars plana during ocular development and after retinal injury.”
Invest Ophthalmol Vis Sci. 2008;49(1):422-8. (査読あり)
4. **Kaneko H**, Nishiguchi KM, Nakamura M, Kachi S, Terasaki H.
“Retardation of photoreceptor degeneration in the detached retina of rd1 mouse.”
Invest Ophthalmol Vis Sci. 2008;49(2):781-7 (査読あり)
5. **Kaneko H**, Nishiguchi KM, Nakamura M, Kachi S, Terasaki H.
“Characteristics of bone marrow-derived microglia in the normal and injured retina.”
Invest Ophthalmol Vis Sci. 2008;49(9):4162-8. (査読あり)
6. Nishiguchi KM, **Kaneko H**, Nakamura M, Kachi S, Terasaki H.
“Generation of immature retinal neurons from proliferating cells in the pars plana after retinal histogenesis in mice with retinal degeneration.”
Mol Vis. 2009;15:187-99. (査読あり)
7. Takeda A, Baffi JZ, Kleinman ME, Cho WG, Nozaki M, Yamada K, **Kaneko H**, Albuquerque RJ, Dridi S, Saito K, Raisler BJ, Budd SJ, Geisen P, Munitz A, Ambati BK, Green MG, Ishibashi T, Wright JD, Humbles AA, Gerard CJ, Ogura Y, Pan Y, Smith JR, Grisanti S, Hartnett ME, Rothenberg ME, Ambati J.
“CCR3 is a target for age-related macular degeneration diagnosis and therapy.”
Nature. 2009;460(7252):225-30. (査読あり)
8. Albuquerque RJ, Hayashi T, Cho WG, Kleinman ME, Dridi S, Takeda A, Baffi JZ, Yamada K, **Kaneko H**, Green MG, Chappell J, Wilting J, Weich HA, Yamagami S, Amano S, Mizuki N, Alexander JS, Peterson ML, Brekken RA, Hirashima M, Capoor S, Usui T, Ambati BK, Ambati J.
“Alternatively spliced vascular endothelial growth factor receptor-2 is an essential endogenous inhibitor of lymphatic vessel growth.”
Nat Med. 2009;15(9):1023-30. (査読あり)

9. Yasuma TR, Nakamura M, Nishiguchi KM, Kikuchi M, **Kaneko H**, Niwa T, Hamajima N, Terasaki H.
“Elevated C-reactive protein levels and ARMS2/HTRA1 gene variants in subjects without age-related macular degeneration.”
Mol Vis. 2010;16:2923-30. (査読あり)
10. Kataoka K, Nishiguchi KM, **Kaneko H**, van Rooijen N, Kachi S, Terasaki H.
“The roles of vitreal macrophages and circulating leukocytes in retinal neovascularization.”
Invest Ophthalmol Vis Sci. 2011;52(3):1431-8. (査読あり)
11. **Kaneko H**, Dridi S, Tarallo V, Gelfand BD, Fowler BJ, Cho WG, Kleinman ME, Ponicsan SL, Hauswirth WW, Chiodo VA, Karikó K, Yoo JW, Lee DK, Hadziahmetovic M, Song Y, Misra S, Chaudhuri G, Buaas FW, Braun RE, Hinton DR, Zhang Q, Grossniklaus HE, Provis JM, Madigan MC, Milam AH, Justice NL, Albuquerque RJ, Blandford AD, Bogdanovich S, Hirano Y, Witt J, Fuchs E, Littman DR, Ambati BK, Rudin CM, Chong MM, Provost P, Kugel JF, Goodrich JA, Dunaief JL, Baffi JZ, Ambati J.
“DICER1 deficit induces Alu RNA toxicity in age-related macular degeneration.”
Nature. 2011;471(7338):325-30. (査読あり)
12. Kleinman ME, **Kaneko H**, Cho WG, Dridi S, Fowler BJ, Blandford AD, Albuquerque RJ, Hirano Y, Terasaki H, Kondo M, Fujita T, Ambati BK, Tarallo V, Gelfand BD, Bogdanovich S, Baffi JZ, Ambati J.
“Short-interfering RNAs Induce Retinal Degeneration via TLR3 and IRF3”
Mol Ther. 2012;20(1):101-8. Equal contribution (査読あり)
13. Tarallo V, Hirano Y, Gelfand BD, Dridi S, Kerur N, Kim Y, Cho WG, **Kaneko H**, Fowler BJ, Bogdanovich S, Albuquerque RJ, Hauswirth WW, Chiodo VA, Kugel JF, Goodrich JA, Ponicsan SL, Chaudhuri G, Murphy MP, Dunaief JL, Ambati BK, Ogura Y, Yoo JW, Lee DK, Provost P, Hinton DR, Núñez G, Baffi JZ, Kleinman ME, Ambati J.
“DICER1 Loss and Alu RNA Induce Age-Related Macular Degeneration via the NLRP3 Inflammasome and MyD88.”
Cell. 2012;149(4):847-59. (査読あり)
14. Deokule SP, Baffi JZ, Guo H, Nazzaro M, **Kaneko H**.
“Evaluation of extended release brimonidine intravitreal device in normotensive rabbit eyes.”
Acta Ophthalmol. 2012;90(5):e344-8 (査読あり)
15. Kim Y, Tarallo V, Kerur N, Yasuma T, Gelfand BD, Bastos-Carvalho A, Hirano Y, Yasuma R, Mizutani T, Fowler BJ, Li S, **Kaneko H**, Bogdanovich S, Ambati BK, Hinton DR, Hauswirth WW, Hakem R, Wright C, Ambati J.
“DICER1/Alu RNA dysmetabolism induces Caspase-8-mediated cell death in age-related macular degeneration.”

- Proc Natl Acad Sci U S A.* 2014;111(45):16082-7 (査読あり)
16. Ijima R, **Kaneko H***, Ye F, Nagasaka Y, Takayama K, Kataoka K, Kachi S, Iwase T, Terasaki H.
“Interleukin-18 induces retinal pigment epithelium degeneration in mice.”
Invest Ophthalmol Vis Sci. 2014;55(10):6673-8. (*Corresponding author) (査読あり)
17. **Kaneko H***.
“Author response: interleukin-18 bioactivity and dose: data interpretation at a crossroads.”
Invest Ophthalmol Vis Sci. 2014;55(12):8350-2. (*Corresponding author)
18. Iwase S, **Kaneko H***, Fujioka C, Sugimoto K, Kondo M, Takai Y, Kachi S, Terasaki H.
“A long-term follow-up of patients with retinopathy of prematurity treated with photocoagulation and cryotherapy”.
Nagoya J Med Sci. 2014;76(1-2):121-8. (*Corresponding author) (査読あり)
19. Hirano Y, Yasuma T, Mizutani T, Fowler B, Tarallo V, Yasuma R, Kim Y, Carvalho AB, Kerur N, Gelfand B, He S, Zhang X, Nozaki M, Ijima R, **Kaneko H**, Ogura Y, Terasaki H, Nunez G, Ambati B, Hinton D, Nagai H, Haro I, Ambati J
“IL-18 is not therapeutic for neovascular age-related macular degeneration”
Nat Med. 2014;20(12):1372-5. (査読あり)
20. **Kaneko H***, Ye F, Ijima R, Kachi S, Kato S, Nagaya M, Higuchi A, Terasaki H
“Histamine H4 receptor as a new therapeutic target for choroidal neovascularization in age-related macular degeneration.”
Br J Pharmacol. 2014;171(15):3754-63 (*Corresponding author) (査読あり)
21. Ye F, **Kaneko H***, Nagasaka Y, Ijima R, Nakamura K, Nagaya M, Takayama K, Kajiyama H, Senga T, Tanaka H, Mizuno M, Kikkawa F, Hori M, Terasaki H
“Plasma-activated medium suppresses choroidal neovascularization in mice: a new therapeutic concept for age-related macular degeneration”
Sci Rep 2015; 5:7705 (*Corresponding author) (査読あり)
22. Ijima R, **Kaneko H***, Ye F, Takayama K, Nagasaka Y, Kataoka K, Funahashi Y, Iwase T, Kachi S, Kato S, Terasaki H “Suppression of laser-induced choroidal neovascularization by the oral medicine targeting histamine receptor h4 in mice”
Transl Vis Sci Technol. 2015;4(2):6 (*Corresponding author) (査読あり)
23. Kataoka K, Matsumoto H, **Kaneko H**, Notomi S, Takeuchi K, Harry S, Atik A, Murakami Y, Kip C, Terasaki H, Miller J. Demetrios V.
“Macrophage- and RIP3-dependent inflammasome activation exacerbates retinal detachment-induced photoreceptor cell death”
Cell Death Dis 2015;6:e1731. (査読あり)
24. Yasuda S, Kachi S, Kondo M, Ueno S, **Kaneko H**, Terasaki H.
“Significant Correlation between Retinal Venous Tortuosity and Aqueous Vascular Endothelial

- Growth Factor Concentration in Eyes with Central Retinal Vein Occlusion.”
PLoS One. 2015;10(7):e0134267. (査読あり)
25. Yanagida K, Iwase T, Yamamoto K, Ra E, **Kaneko H**, Murotani K, Matsui S, Terasaki H.
“Sex-Related Differences in Ocular Blood Flow of Healthy Subjects Using Laser Speckle Flowgraphy.”
Invest Ophthalmol Vis Sci. 2015;56(8):4880-90. (査読あり)
26. Iwase T, Ra E, Yamamoto K, **Kaneko H**, Ito Y, Terasaki H.
“Differences of Retinal Blood Flow Between Arteries and Veins Determined by Laser Speckle Flowgraphy in Healthy Subjects.”
Medicine (Baltimore). 2015;94(33):e1256. (査読あり)
27. **Kaneko H***, Ra E, Kawano K, Yasukawa T, Takayama K, Iwase T, Terasaki H.
“Surgical Videos with Synchronised Vertical 2-Split Screens Recording the Surgeons’ Hand Movement”
Ophthalmologica, 2015;234:243-246 (*Corresponding author) (査読あり)
28. Tanaka H, Mizuno M, Ishikawa K, Kondo H, Takeda K, Hashizume H, Nakamura K, Utsumi F, Kajiyama H, Kano H, Okazaki Y, Toyokuni S, Akiyama S, Maruyama S, Yamada S, Kodera Y, **Kaneko H**, Terasaki H, Hara H, Adachi T, Iida M, Yajima I, Kato M, Kikkawa F, Hori M
“Plasma with high electron density and Plasma-Activated Medium for Cancer Treatment”
Clinical Plasma Medicine, 2015;3:72-76 (査読あり)
29. Matsui A, **Kaneko H***, Kachi S, Ye F, Hwang SJ, Katayama K, Nagasaka Y, Sugita T, Terasaki H.
“Expression of Vascular Endothelial Growth Factor by Retinal Pigment Epithelial Cells Induced by Amyloid Beta is Depressed by an Endoplasmic Reticulum Stress Inhibitor”
Ophthalmic Res, 2016;55:37-44 (*Corresponding author) (査読あり)
30. Sato C, **Kaneko H***, Kondo T, Takayama K, Yasuda S, Terasaki H.
“Association of intraocular pressure changes with right ventricular diameter and brain natriuretic peptide in a case of pulmonary arterial hypertension”
J Glaucoma. 2016;25(3):e295-8. (*Corresponding author) (査読あり)
31. Bogdanovich S, Kim Y, Mizutani T, Yasuma R, Bastos-Carvalho A, Kerur N, Hirano Y, Baffi J, Tarallo V, Li S, Yasuma T, Arpitha P, Fowler B, Gelfand B, Tudisco L, Cicatiello V, Apicella I, De Falco S, Greco A, Brunetti A, Ruvo M, Sandomenico A, Nozaki M, Ogura Y, **Kaneko H**, Ijima R, Terasaki H, Ambati BK, Leusen J, Langdon W, Clark M, Armour K, Bruhns P, Verbeek J, Wright C, Ambati J
“Human IgG1 antibodies suppress angiogenesis in a target-independent manner”
Signal Transduction and Targeted Therapy. 2016;1 (査読あり)
32. Takayama K, **Kaneko H***, Hwang SJ, Ye F, Higuchi A, Tsunekawa T, Matsuura T, Iwase T,

- Asami T, Ito Y, Ueno S, Yasuda S, Nonobe N, Terasaki H
“Increased ocular levels of microRNA-148a in cases of retinal detachment promote epithelial–mesenchymal transition”
Invest Ophthalmol Vis Sci. 2016;57(6):2699-705. (*Corresponding author) (査読あり)
33. Ye F, **Kaneko H***, Hayashi Y, Takayama K, Hwang SJ, Nishizawa Y, Kimoto R, Nagasaka Y, Tsunekawa T, Matsuura T, Yasukawa T, Kondo T, Terasaki H.
“Malondialdehyde induces autophagy dysfunction and VEGF secretion in the retinal pigment epithelium in age-related macular degeneration.”
Free Radic Biol Med. 2016;94:121-134. Equal contribution
(*Corresponding author) (査読あり)
34. Takayama K, **Kaneko H***, Terasaki H
“A Case of Immunoglobulin G4-Associated Anterior Uveitis and Remitting Seronegative Symmetrical Synovitis with Pitting Edema Syndrome”
Ocul Immunol Inflamm. 2016;18:1-2. (*Corresponding author) (査読あり)
35. Iwase T, Ra E, Asami T, Yamamoto K, **Kaneko H**, Terasaki H.
“Pyramidal-Shaped Residual Subretinal Fluid at Fovea After Intravitreal Injection of Perfluoro-n-Octane in Eyes With Fovea-Off Rhegmatogenous Retinal Detachment.”
Retina. 2016;36(11):e108-e110 (査読あり)
36. Asami T, Terasaki H, Ito Y, Sugita T, **Kaneko H**, Nishiyama J, Namiki H, Kobayashi M, Nishizawa N.
“Development of a Fiber-Optic Optical Coherence Tomography Probe for Intraocular Use.”
Invest Ophthalmol Vis Sci. 2016;57(9):OCT568-74. (査読あり)
37. Takayama K, **Kaneko H**, Ueno S, Maruko R, Piao CH, Yasuda S, Kawano K, Ito Y, Terasaki H.
“Evaluation of Short-Term Outcomes of Intravitreal Aflibercept Injections for Age-Related Macular Degeneration Using Focal Macular Electretinography.”
Retina. Retina. 2017 Mar;37(3):553-560. (査読あり)
38. Takayama K, **Kaneko H***, Kataoka K, Ueno S, Chang-Hua P, Ito Y, Terasaki H.
“Short-term focal macular electretinogram of eyes treated by aflibercept & photodynamic therapy for polypoidal choroidal vasculopathy.”
Graefes Arch Clin Exp Ophthalmol. 2017 Mar;255(3):449-455. [Epub ahead of print]
(*Corresponding author) (査読あり)
39. Takayama K, Ito Y, **Kaneko H**, Nagasaka Y, Tsunekawa T, Sugita T, Terasaki H. “Cross-sectional pupillographic evaluation of relative afferent pupillary defect in age-related macular degeneration.”
Medicine (Baltimore). 2016;95(39):e4978. (査読あり)
40. Takayama K, **Kaneko H***, Kataoka K, Kimoto R, Hwang SJ, Ye F, Nagasaka Y, Tsunekawa T,

- Matsuura T, Nonobe N, Ito Y, Terasaki H.
“Nuclear Factor (Erythroid-Derived)-Related Factor 2-Associated Retinal Pigment Epithelial Cell Protection under Blue Light-Induced Oxidative Stress.”
Oxid Med Cell Longev. 2016;8694641. (*Corresponding author) (査読あり)
41. Takayama K, Ito Y, **Kaneko H**, Kataoka K, Ra E, Terasaki H.
“Optical coherence tomography angiography in leber hereditary optic neuropathy.”
Acta Ophthalmol. 2017 Jun;95(4):e344-e345. (査読あり)
42. Asami T, **Kaneko H**, Miyake K, Ota I, Miyake G, Kato S, Yasuda S, Iwase T, Ito Y, Terasaki H.
“An Endovascular Cannulation Needle with an Internal Wire for the Fragmentation of Thrombi in Retinal Vein Occlusion.”
Transl Vis Sci Technol. 2016 Sep 30;5(5):9.
43. Matsuura T, Takayama K, **Kaneko H***, Ye F, Fukukita H, Tsunekawa T, Kataoka K, Hwang SJ, Nagasaka Y, Ito Y, Terasaki H
“Nutritional Supplementation Inhibits the Increase in Serum Malondialdehyde in Patients with Wet Age-related Macular Degeneration”
Oxid Med Cell Longev. 2017;2017:9548767 (*Corresponding author) (査読あり)
44. Tsunekawa T, **Kaneko H***, Takayama K, Hwang SJ, Oishi A, Nagasaka Y, Ye F, Iwase T, Nonobe N, Ueno S, Ito Y, Yasuda S, Matsuura T, Shimizu H, Suzumura A, Kataoka K, Terasaki H
“Correlation between miR148 expression in vitreous and severity of rhegmatogenous retinal detachment”
Biomed Res Int. 2017;2017:3427319. (*Corresponding author) (査読あり)
45. **Kaneko H***, Asami T, Sugita T, Tsunekawa T, Matsuura T, Takayama K, Yamamoto K, Kachi S, Ito Y, Ueno S, Nonobe N, Kataoka K, Suzumura A, Iwase T, Terasaki H
“Better visual outcome by intraocular lens ejection in geriatric patients with ruptured ocular injuries”
PLoS One. 2017 Jan 20;12(1):e0170094 (*Corresponding author) (査読あり)
46. Nagasaka Y, **Kaneko H***, Ye F, Kachi S, Asami T, kato S, Takayama K, Hwang SJ, Kataoka K, Shimizu H, Iwase T, Funahashi Y, Higuchi A, Senga T, Terasaki H.
“Role of Caveolin-1 for Blocking the Epithelial-Mesenchymal Transition in Proliferative Vitreoretinopathy”
Invest Ophthalmol Vis Sci. 2017 Jan 1;58(1):221-229 (*Corresponding author) (査読あり)
47. Takayama K, **Kaneko H**, Kachi S, Ra E, Ito Y, Terasaki H.
“High-dose intravenous pulse steroid therapy for optic disc swelling and subretinal fluid in non-arteritic anterior ischemic optic neuropathy.”
Nagoya J Med Sci. 2017 Feb;79(1):103-108. (査読あり)

48. Ra E, Ito Y, Kawano K, Iwase T, **Kaneko H**, Ueno S, Yasuda S, Kataoka K, Terasaki H.
 “Regeneration of Photoreceptor Outer Segments after Scleral Buckling Surgery for Rhegmatogenous Retinal Detachment.”
Am J Ophthalmol. 2017 May;177:17-26 (査読あり)
49. Takayama K, **Kaneko H**, Sugita T, Maruko R, Hattori K, Ra E, Kawano K, Kataoka K, Ito Y, Terasaki H.
 “One-Year Outcomes of 1 + pro re nata versus 3 + pro re nata Intravitreal Aflibercept Injection for Neovascular Age-Related Macular Degeneration.”
Ophthalmologica. 2017;237(2):105-110. (査読あり)
50. Takayama K, Ito Y, **Kaneko H**, Kataoka K, Sugita T, Maruko R, Hattori K, Ra E, Haga F, Terasaki H.
 “Comparison of indocyanine green angiography and optical coherence tomographic angiography in polypoidal choroidal vasculopathy”
Eye (London) 2017 ;31,45–52 (査読あり)
51. Fukami M, Iwase T, Yamamoto K, **Kaneko H**, Yasuda S, Terasaki H.
 “Changes in Retinal Microcirculation After Intravitreal Ranibizumab Injection in Eyes With Macular Edema Secondary to Branch Retinal Vein Occlusion.”
Invest Ophthalmol Vis Sci. 2017 Feb 1;58(2):1246-1255.
52. **Kaneko H***, Terasaki H. “Biological involvement of microRNAs in proliferative vitreoretinopathy” **REVIEW**
Transl Vis Sci Technol. 2017;6(4):5 (*Corresponding author) (査読あり)
53. **Kaneko H***, Takayama K, Asami T, Ito Y, Tsunekawa T, Iwase T, Funahashi Y, Ueno S, Nonobe N, Yasuda S, Suzumura A, Shimizu H, Kimoto R, Hwang SJ, Terasaki H. “Cytokine profiling in the sub-silicone oil fluid after vitrectomy surgeries for refractory retinal diseases”
Sci Rep 2017 May 25;7(1):2640. (*Corresponding author) (査読あり)
54. Takayama K, **Kaneko H***, Kataoka K, Hattori K, Ra E, Tsunekawa T, Fukukita H, Haga F, Ito Y, Terasaki H.
 “Comparison between 1-year outcomes of aflibercept with and without photodynamic therapy for polypoidal choroidal vasculopathy: Retrospective observation study.”
PLoS One. 2017 May 3;12(5):e0176100. (*Corresponding author) (査読あり)
55. **Kaneko H***, Matsuura T, Takayama K, Ito Y, Iwase T, Ueno S, Nonobe N, Yasuda S, Kataoka K, Terasaki H.
 “Increased retinal thinning after combination of internal limiting membrane peeling and silicone oil endotamponade in proliferative diabetic retinopathy”
Ophthalmologica. 2017;238(4):226-235. (*Corresponding author) (査読あり)
56. Nonobe N, **Kaneko H**, Ito Y, Takayama K, Kataoka K, Tsunekawa T, Matsuura T, Suzumura A,

- Shimizu H, Terasaki H.
“Optical coherence tomography angiography of the foveal avascular zone in children with a history of treatment-requiring retinopathy of prematurity.”
Retina. 2019 Jan;39(1):111-117. doi: 10.1097/IAE.0000000000001937. (査読あり)
57. Horio J, **Kaneko H***, Takayama K, Tuzuki K, Kakihara H, Iwami M, Kawase Y, Tsunekawa T, Yamaguchi N, Nonobe N, Terasaki H.
“Changes in refractive characteristics in Japanese children with Down syndrome.”
Jpn J Ophthalmol. 2018 Mar;62(2):231-236. doi: 10.1007/s10384-018-0565-x. Epub 2018 Jan 30. (*Corresponding author) (査読あり)
58. Takeuchi J, Kataoka K, Ito Y, Takayama K, Yasuma T, **Kaneko H**, Terasaki H.
“Optical Coherence Tomography Angiography to Quantify Choroidal Neovascularization in Response to Aflibercept.”
Ophthalmologica. 2018;240(2):90-98. doi: 10.1159/000487611. Epub 2018 May 8. (査読あり)
59. Fukukita H, Ito Y, Iwase T, **Kaneko H**, Yasuda S, Kataoka K, Terasaki H.
“Inner macular changes after vitrectomy with internal limiting membrane peeling for rhegmatogenous retinal detachment: Similarity With Alport Syndrome.”
Retina. 2019 Dec;39(12):2332-2340 doi: 10.1097/IAE.0000000000002310. (査読あり)
60. Kataoka K, Takeuchi J, Nakano Y, Fujita A, **Kaneko H**, Ito Y, Terasaki H.
“Characteristics and classification of type 3 neovascularization with B-scan flow overlaid and en face flow images of optical coherence tomography.”
Retina. 2018 Oct 9. doi: 10.1097/IAE.0000000000002357. [Epub ahead of print]
61. Takayama K, **Kaneko H**, Ito Y, Kataoka K, Iwase T, Yasuma T, Matsuura T, Tsunekawa T, Shimizu H, Suzumura A, Ra E, Akahori T, Terasaki H.
“Novel Classification of Early-stage Systemic Hypertensive Changes in Human Retina Based on OCTA Measurement of Choriocapillaris.”
Sci Rep. 2018 Oct 11;8(1):15163. doi: 10.1038/s41598-018-33580-y. (査読あり)
62. Makin RD, Apicella I, Nagasaka Y, **Kaneko H**, Turner SD, Kerur N, Ambati J, Gelfand BD.
“RF/6A Chorioretinal Cells Do Not Display Key Endothelial Phenotypes.”
Invest Ophthalmol Vis Sci. 2018 Dec 3;59(15):5795-5802. doi: 10.1167/iovs.18-25215. (査読あり)
63. Yamada K, **Kaneko H***, Tsunekawa T, Shimizu H, Suzumura A, Namba R, Takeuchi J, Kataoka K, Takayama K, Inoue M, Ito Y, Terasaki H.
“Silicone oil-associated retinal light exposure under a surgical microscope.”
Acta Ophthalmol. 2019 Aug;97(5):e742-e746 doi: 10.1111/aos.14038. (*Corresponding author) (査読あり)

64. Shimizu H, **Kaneko H***, Suzumura A, Takayama K, Namba R, Funahashi Y, Kataoka K, Iwase T, Hwang SJ, Ito S, Yamada K, Ueno S, Ito Y, Terasaki H.
 “Biological Characteristics of Subs Silicone Oil Fluid and Differences With Other Ocular Humors.”
Transl Vis Sci Technol. 2019 Feb 28;8(1):28. doi: 10.1167/tvst.8.1.28. (*Corresponding author)
 (査読あり)
65. Nakano Y, Kataoka K, Takeuchi J, Fujita A, **Kaneko H**, Shimizu H, Ito Y, Terasaki H.
 “Vascular maturity of type 1 and type 2 choroidal neovascularization evaluated by optical coherence tomography angiography.”
PLoS One. 2019 Apr 29;14(4):e0216304. doi: 10.1371/journal.pone.0216304. (査読あり)
66. Namba R, **Kaneko H***, Suzumura A, Shimizu H, Kataoka K, Takayama K, Yamada K, Funahashi Y, Ito S, Nonobe N, Terasaki H.
 “In Vitro Epiretinal Membrane Model and Antibody Permeability: Relationship With Anti-VEGF Resistance in Diabetic Macular Edema.”
Invest Ophthalmol Vis Sci. 2019 Jul 1;60(8):2942-2949. doi: 10.1167/iovs.19-26788.
 (*Corresponding author) (査読あり)
67. Suzumura A, **Kaneko H***, Funahashi Y, Takayama K, Nagaya M, Ito S, Okuno T, Hirakata T, Nonobe N, Kataoka K, Shimizu H, Namba R, Yamada K, Ye F, Ozawa Y, Yokomizo T, Terasaki H.
 “Omega-3 Fatty Acid and its Metabolite 18-HEPE Ameliorate Retinal Neuronal Cell Dysfunction by Enhancing Müller BDNF in Diabetic Retinopathy”
Diabetes 2020; 69(4): 724-735. (*Corresponding author) (査読あり)
68. Matsuura T, **Kaneko H***, Takayama K, Shibata R, Kataoka K, Ito S, Tsunekawa T, Shimizu H, Suzumura A, Namba R, Ito Y, Murohara T, Terasaki H.
 “Diacron reactive oxygen metabolites and biological antioxidant potential tests for patients with age-related macular degeneration”
BMC Ophthalmol 2020 Feb 18;20(1):56. doi: 10.1186/s12886-020-01334-y. (*Corresponding author) (査読あり)
69. Ito H, Ito Y, Kataoka K, Ueno S, Takeuchi J, Nakano Y, Fujita A, Horiguchi E, **Kaneko H**, Iwase T, Terasaki H.
 “Association between retinal layer thickness and perfusion status in extramacular areas in diabetic retinopathy”
Am J Ophthalmol. 2020 Jul;215:25-36.
70. Terao R, **Kaneko H**.
 “Lipid Signaling in Ocular Neovascularization.”
Int J Mol Sci. 2020 Jul 4;21(13):4758. (査読あり)
71. Yamada K, **Kaneko H***, Shimizu H, Suzumura A, Namba R, Takayama K, Ito S, Sugimoto M,

Terasaki H.

“Lamivudine Inhibits Alu RNA-induced Retinal Pigment Epithelium Degeneration via Anti-inflammatory and Anti-senescence Activities”

Yamada K, Kaneko H, Shimizu H, Suzumura A, Namba R, Takayama K, Ito S, Sugimoto M, Terasaki H.

Transl Vis Sci Technol. 2020 Jul 1;9(8):1. doi: 10.1167/tvst.9.8.1. (*Corresponding author) (査読あり)

72. Shimizu H, Yamada K, Suzumura A, Kataoka K, Takayama K, Sugimoto M, Terasaki H, **Kaneko H***.

“Caveolin-1 Promotes Cellular Senescence in Exchange for Blocking Subretinal Fibrosis in Age-Related Macular Degeneration”

Invest Ophthalmol Vis Sci. 2020 Sep 1;61(11):21. doi: 10.1167/iovs.61.11.21. (*Corresponding author) (査読あり)

73. Suzumura A, Terao R, **Kaneko H***.

“Protective Effects and Molecular Signaling of n-3 Fatty Acids on Oxidative Stress and Inflammation in Retinal Diseases”

Antioxidants (Basel). 2020 Sep 26;9(10):920. doi: 10.3390/antiox9100920. (*Corresponding author) (査読あり)

74. Takeuchi J, Kataoka K, Shimizu H, Tomita R, Kominami T, Ushida H, **Kaneko H**, Ito Y, Terasaki H.

“Intra- and Postoperative Monitoring of Autologous Neurosensory Retinal Flap Transplantation for Refractory Macular Hole Associated with High Myopia”

Retina. 2020 Oct 16. doi: 10.1097/IAE.0000000000003000. Online ahead of print.

75. **Kaneko H***, Hirata N, Shimizu H, Kataoka K, Nonobe N, Mokuno K, Terasaki H.

“Effect of internal limiting membrane peeling on visual field sensitivity in eyes with epiretinal membrane accompanied by glaucoma with hemifield defect and myopia”

Jpn J Ophthalmol. 2021 Feb 3. doi: 10.1007/s10384-021-00817-9. Online ahead of print. (*Corresponding author) (査読あり)

76. Takashi N, Nakamura A, Kataoka K, Usui Y, Ito Y, **Kaneko H***.

“Optical coherence tomography angiography for the diagnosis of granulomatosis with polyangiitis with serous retinal detachment: A case report.”

Medicine (Baltimore). 2021Feb19;100(7):e24789. doi: 10.1097/MD.00000000000-24789. (*Corresponding author) (査読あり)

Domestic Publications

1. **Kaneko H**, Murase T, Tomita Y, Nakagawa A, Nomura K, Nakamura S.
“Follicular lymphoma complicated with massive bleeding from ileum after rituximab-containing chemotherapy.”
Jpn J Cancer Clin. 2003;49(13):1639-45. (査読あり)
2. 小切開硝子体手術における術中サンプル収集方法の検討 (黒川 幸延・兼子 裕規・浅見 哲・岩瀬 剛・寺崎 浩子) あたらしい眼科 : 31 : 11 : 140-642, 2014
3. 未熟児網膜症治療の現状と展望寺崎浩子, 高井佳子, 兼子裕規. 現代医学 2006.53(3).419-425
4. 萎縮型加齢黄斑変性の原因解明と治療の可能性【兼子 裕規・山下 英俊】あたらしい眼科 : 29(5)641-642 眼科医のための先端医療 137. 2012
5. 脈絡膜新生血管モデル【兼子 裕規】 臨床眼科 2014年10月号(増刊号)(Vol.68 No.11) p370-371 ターゲット別! 画像診断お助けガイド-基本画像から最新モダリティまで
6. 兼子裕規:鑑別診断. 吉村長久, 寺崎浩子(編): 眼科臨床エキスパート 網膜剥離と極小切開硝子体手術. 医学書院、東京, 194-203, 2015
7. 平成 27 年度日本眼科学会学術奨励賞 受賞論文総説 “加齢黄斑変性の新規治療ターゲットとしてのヒスタミン H4 受容体” 兼子 裕規
日本眼科学会雑誌 2016;120(11);747-753
8. 貧血網膜症【兼子 裕規】 眼底疾患パーフェクトアトラス 2017, p326
9. 眼科疾患とオートファジー【兼子 裕規】 日本の眼科 2017; 88(2), 5-6
10. Retina 施設めぐり (研究室編)【兼子 裕規】 Retina Medicine 2017 年秋号(Vol.6 No.2),72-73
11. 基礎研究コラム 5. 細胞におけるノンコーディング RNA の役割【兼子 裕規】あたらしい眼科 : 34 : 10 : 1429, 2017
12. 「こんなときどうする 眼外傷<眼球破裂、穿孔性眼外傷>」【兼子 裕規】 OCULISTA2017;11:24-30
13. “強度近視・近視性脈絡膜新生血管患者における腸内細菌叢の分析” 日本眼科学会雑誌, 第 122 巻第 10 号: 733-743,2018, 兼子 裕規, 加地 秀, 伊藤 逸毅, 竹田 綾, 渡辺 諭史, 沢井 悠, 寺崎 浩子
14. “網膜疾患と血液中マーカー”【兼子 裕規】 Retina Medicine 2018;7(1);14-17
15. “血液・造血器疾患による網膜病変”【兼子 裕規】 眼疾患アトラスシリーズ・後眼部アトラス, 2019,108-111
16. 網膜橋渡し研究アップデート 9. “免疫・補体標的療法”【兼子 裕規】 眼科 2020,62(5).479-481

Books

1. **Hiroki Kaneko**, Hiroko Terasaki: Age-related macular degeneration In Toyokuni S et al. (ed): Plasma Medical Science. Academic Press, Cambridge, 313-318, 2018

<Presentations>

1. “TLR3 Inhibitors Blocks Double Stranded RNA-Induced Retinal Degeneration”
ARVO2009 Annual Meeting, Oral presentation
2. “RPE of Aged Mice Displays TLR3 Activation and dsRNA Binding Protein Reduction”
ARVO 2010 Annual Meeting, Poster presentation
3. “Anti-histamine receptor 4 therapy inhibits choroidal neovascularization in mice”
ARVO 2013 Annual Meeting, Poster presentation, Seattle, USA, 2013.5
4. “田舎町 Kentucky 留学体験記” 招待講演, Alcon Novartis Hida Memorial Award 2014 授賞セミナー, 日本臨床眼科学会 2014.
5. “A new therapeutic target in age-related macular degeneration”
Asia-ARVO 2015, Symposium, Molecular Mechanisms in Age-related Macular Degeneration, 2015, 02/16-19
6. “Biological change in retinal detachment”
Asia-ARVO 2015, Symposium, New Insight for Retinal Detachment, Damage and Treatment, 2015, 02/16-19
7. “DICER1 減少による萎縮型 AMD の分子メカニズム” 日本眼科学会総会 2015, シンポジウム, 加齢黄斑変性発祥の分子メカニズムと予防戦略, 2015, 04/16-19, 札幌, ロイトン札幌
8. “Histamine receptor H4 as a new therapeutic target for age-related macular degeneration”
Symposium, AGE-RELATED MACULAR DEGENERATION, Molecular Targets in Age-Related Macular Degeneration: Beyond VEGF, 13th Congress of the International Ocular Inflammation Society (IOIS), San Francisco, 2015/9/25-27
9. “Dry AMD: Potential Therapeutic Targets”
Asia-Pacific Academy of Ophthalmology Congress, Taipei
Symposium, Age-Related Macular Degeneration: Anti-VEGF and Other Treatment, 2016/3/24-27.
10. “ドライ AMD 診療のアップデート”
第 5 回 Tokai Retinea Seminar, 教育講演, 2017/5/25, Nagoya
11. “Cytokine profiling in the sub-silicone oil fluid after vitrectomy surgeries for refractory retinal diseases” EURETINA Congress 2017, 2017/9/7-10, Barcelona
12. “酸化ストレスマーカーが示す AMD とサプリメントテーション” ランチョンセミナー : AMD リスクを食生活・栄養素から考え直す, 第 71 回日本臨床眼科学会, 2017/10/12-15, 東京
13. “バックリング手術に必要な準備” インストラクションコース, 網膜復位術の基本と極意, 第 71 回日本臨床眼科学会, 2017/10/12-15, 東京
14. Hiroki Kaneko, Hideyuki Shimizu, Taichi Tsunekawa, Takeshi Iwase, Toshiyuki Matsuura,

Ayana Suzumura, Rina Namba, Hiroko Terasaki : The relationship between inflammatory cytokines in the sub-silicone oil fluid and retinal thickness in eyes with proliferative vitreoretinopathy and proliferative diabetic retinopathy.(Poster) ARVO 2018 Annual Meeting. Honolulu, USA

15. “加齢黄斑変性に対するバイオ医薬と高騰する医療費”第 28 群馬眼科フォーラム, 2018/11/2, 前橋
16. “免疫・補体経路と網膜疾患”インストラクションコース, 網膜橋渡し研究アップデート 2018, 第 72 回日本臨床眼科学会, 2018/10/11-14, 東京
17. “Possible causes of silicone-oil related vision loss in RD and PVR”
Symposium“Management of Retinal Detachment and PVR”
The 12th Asia-Pacific Vitreo-retina Society (APVRS) Congress, 2018/12/14-16, Seoul,
18. “Possible mechanism of silicone-oil related vision loss in intractable retinal diseases”
Paper“Management of Retinal Detachment and PVR”
ARVO Annual Meeting 2019, 2019/4/27-5/2, Vancouver
19. “加齢黄斑変性のバイオマーカー”
Global Ocular Inflammation Workshop (GOIW) 2019, 2019/6/28-30, Sapporo,
眼炎症教育プログラム, セミナー1「炎症病態・サイトカイン」
20. “マロンジアルデヒドと加齢黄斑変性”
第 39 回日本眼薬理学会, 2019/9/14-15, 名古屋
シンポジウム 1 「バイオマーカー」
21. “シリコンオイルの生理”
第 73 回臨床眼科学会, 2019/10/24-27, 京都
シンポジウム 16「手術から学ぶ網膜生理」
22. “脱臼 IOL をそのまま逢着した手術後に PVR を惹き起こした症例”
第 59 回日本網膜硝子体学会総会, ランチョンセミナー「白熱！硝子体倶楽部-Round4-」
2020/11/27, 福岡
23. “硝子体術者に相性が良い緑内障デバイスと手術の考え方”
第 59 回日本網膜硝子体学会総会, イブニングセミナー「硝子体手術 My Way III -私が愛用する surgical instrument-」 2020/11/27, 福岡
24. “手術と科学で考える網膜診療と緑内障診療のマッチング ”
第 22 回沖縄眼研究フロンティア, 2021/1/30, 那覇 (Webinar)
25. “シリコンオイルによる網膜フェロトーシス”
第 125 回日本眼科学会総会, 2021/4/8-11, 大阪
一般演題「網膜硝子体手術 I」
26. “硝子体同時手術における IOL 選択基準の変遷”
第 125 回日本眼科学会総会, 2021/4/8-11, 大阪
ランチョンセミナー18, スペシャリストの眼内レンズ～こだわりの基準と IOL 選択～

27. “網膜硝子体疾患研究の進め方：硝子体サンプルの解析と病態解明”

第 125 回日本眼科学会総会, 2021/4/8-11, 大阪

スキルトランスファー 1, 眼科基礎研究スキルトランスファー ～対象疾患に応じた基本戦術とスキルを身につけよう～

<学会発表（口頭発表）>

1. “人工的網膜剥離による rd1 マウスの網膜形態保存”

第 110 回日本眼科学会総会, 2006/4/13-16, 大阪

兼子裕規・西口康二・中村誠・寺崎浩子

2. “骨髄由来細胞のマウス網膜内への生着”

第 46 回日本網膜硝子体学会総会, 2007/11/23-25, 青森

兼子裕規・西口康二・中村誠・加地秀・寺崎浩子

3. “脂質代謝物マロンジアルデヒドが網膜色素上皮細胞に与える影響”

第 53 回日本網膜硝子体学会, 2014/11/28-30, 大阪

兼子裕規・叶福相・高山圭・伊島亮・長坂洋介・寺崎浩子

<特別講演>

1. “加齢黄斑変性の新規治療ターゲットとしてのヒスタミン H4 受容体”

第 120 回 日本眼科学会総会 2016.4.7-10 仙台市

日本眼科学会学術奨励賞記念講演

2. “腸内細菌叢と近視”

第 4 回近視研究会学術集会

特別講演 2019/11/9, 東京