

## <2017年度 アイセンター 論文発表>

### 【Peer-reviewed English Journal】

#### Investigative Ophthalmology & Visual Science

- Kamao H, Mandai M, Ohashi W, Hiramami Y, Kurimoto Y, Kiryu J, Takahashi M. Evaluation of the surgical device and procedure for extracellular Matrix-Scaffold-Supported human iPSC-Derived retinal pigment epithelium cell sheet transplantation. *Invest Ophthalmol Vis Sci* 2017, 58(1):211-220.
- Dodo Y, Murakami T, Suzuma K, Yoshitake S, Yoshitake T, Ishihara K, Fujimoto M, Miwa Y, Tsujikawa A. Diabetic Neuroglial Changes in the Superficial and Deep Nonperfused Areas on Optical Coherence Tomography Angiography. *Invest Ophthalmol Vis Sci* 2017, 58(19):5870-5879.

#### Clinical Ophthalmology

- Nishida A, Kojima H, Kameda T, Mandai M, Kurimoto Y. Five-year outcomes of pars plana vitrectomy for macular edema associated with branch retinal vein occlusion. *Clin Ophthalmol* 2017, 11:369-375.
- Miyamoto N, Mandai M, Kojima H, Kameda T, Shimozone M, Nishida A, Kurimoto Y. Response of eyes with age-related macular degeneration to anti-VEGF drugs and implications for therapy planning. *Clin Ophthalmol* 2017, 11:809-816.
- Takagi S, Mandai M, Miyamoto N, Nishida A, Hiramami Y, Uyama H, Yamamoto M, Takahashi M, Tomita G, Kurimoto Y. Incidence of outer retinal tubulation in eyes with choroidal neovascularization under intravitreal anti-vascular endothelial growth factor therapy in a Japanese population. *Clin Ophthalmol* 2017, 11:1219-1225.

#### Ophthalmology Retina

- Miyamoto N, Ishida K, Kurimoto Y. Restoration of photoreceptor outer segments up to 24 months after pars plana vitrectomy in patients with diabetic macular edema. *Ophthalmology Retina* 2017, 124(10):1432-1436.

#### The New England Journal of Medicine

- Mandai M, Watanabe A, Kurimoto Y, Hiramami Y, Morinaga C, Daimon T, Fujihara M, Akimaru H, Sakai N, Shibata Y, Terada M, Nomiya Y, Tanishima S, Nakamura M, Kamao H, Sugita S, Onishi A, Ito T, Fujita K, Kawamata S, Go MJ, Shinohara C, Hata KI, Sawada M, Yamamoto M, Ohta S, Ohara Y, Yoshida K, Kuwahara J, Kitano Y, Amano N, Umekage

M, Kitaoka F, Tanaka A, Okada C, Takasu N, Ogawa S, Yamanaka S, Takahashi M. Autologous induced stem-cell-derived retinal cells for macular degeneration. *N Engl J Med* 2017, 376(11):1038-1046.

- Mandai M, Kurimoto Y, Takahashi M. Autologous induced stem-cell-derived retinal cells for macular degeneration. *N Engl J Med* 2017, 376(11): 1038-1046.

#### Medicine

- Motozawa N, Nakamura T, Takagi S, Fujihara M, Hirami Y, Ishida K, Sotozono C, Kurimoto Y. Unique circumferential peripheral keratitis in relapsing polychondritis A case report. *Medicine (Baltimore)* 2017, 96(41): e7951.

#### Stem Cell Reports

- Mandai M, Fujii M, Hashiguchi T, Sunagawa GA, Ito SI, Sun J, Kaneko J, Sho J, Yamada C, Takahashi M. iPSC-Derived Retina Transplants Improve Vision in rd1 End-Stage Retinal-Degeneration Mice. *Stem Cell Reports* 2017, 8(1):69-83.
- Mandai M, Fujii M, Hashiguchi T, Sunagawa GA, Ito SI, Sun J, Kaneko J, Sho J, Yamada C, Takahashi M. iPSC-Derived Retina Transplants Improve Vision in rd1 End-Stage Retinal-Degeneration Mice. *Stem Cell Reports* 2017, 8(4):1112-1113.
- Ito SI, Onishi A, Takahashi M. Chemically-induced photoreceptor degeneration and protection in mouse iPSC-derived three-dimensional retinal organoids. *Stem Cell Reports* 2017, 24:94-101.

#### Biochemical and Biophysical Research Communications

- Ueda K, Onishi A, Ito SI, Nakamura M, Takahashi M. Generation of three-dimensional retinal organoids expressing rhodopsin and S- and M-cone opsins from mouse stem cells. *Biochem Biophys Res Commun* 2017, 495(22):2595-2601.

#### PLoS One

- Mori Y, Murakami T, Suzuma K, Ishihara K, Yoshitake S, Fujimoto M, Dodo Y, Yoshitake T, Miwa Y, Tsujikawa A. Relation between macular morphology and treatment frequency during twelve months with ranibizumab for diabetic macular edema. *PLoS One* 2017, 12(4): e0175809.

#### Scientific Reports

- Dodo Y, Suzuma K, Ishihara K, Yoshitake S, Fujimoto M, Yoshitake T, Miwa Y, Murakami T. Clinical relevance of reduced decorrelation signals in the diabetic inner choroid on

optical coherence tomography angiography. Scientific Reports 2017, 7(1):5227.

- Kawashima-Kumagai K, Yamashiro K, Yoshikawa M, Miyake M, Ming GCC, Fan Q, Koh JY, Saito M, Sugahara-Kuroda M, Oishi M, Akagi-Kurashige Y, Nakata I, Nakanishi H, Gotoh N, Oishi A, Tamura H, Ooto S, Tsujikawa A, Kurimoto Y, Sekiryu T, Matsuda F, Khor CC, Cheng CY, Wong TY, Yoshimura N. A genome-wide association study identified a novel genetic loci STON1-GTF2A1L/LHCGR/FSHR for bilaterality of neovascular age-related macular degeneration. Scientific Reports 2017, 7:7173

【和文原著, 著書】

- 平見恭彦:眼の再生医療.眼科診療マイスターIII. 処置と手術手技 メジカルビュー社,238-241,2017
- 栗本康夫:眼科領域における再生医療の現況と将来展望.公衆衛生 ,397-402,2017
- 栗本康夫:加齢黄斑変性に対する iPS 細胞治療の臨床研究. 週刊医学のあゆみ ポドサイト障害 - 腎障害における新たな視点 ,187-188,2017
- 広瀬文隆:緑内障セミナー : 眼圧変動と眼軸長の変化. あたらしい眼科 34(3):389-390, 2017.
- 平見恭彦:網膜の再生医療—最近の動向. 臨床眼科 71(9):1303-1308, 2017.
- 高木誠二, 万代道子, 宮本紀子, 西田明弘, 宇山紘史, 平見恭彦, 山本 翠, 高橋政代, 富田剛司, 栗本康夫:抗 VEGF 治療中の加齢黄斑変性において矯正視力が不良となる症例の特徴と背景. 眼科臨床紀要 10(9):749-754, 2017.