

## Output Oogheelkunde 2017

### Dissertatie

1. De Clerck E. Ocular neurodegenerative changes & macular cysts in prediabetes and type 2 diabetes. Maastricht University. 12-12-2017. Promotor: **Webers** CAB, Stehouwer CDA; Co-promotor: **Schouten** JSAG

### Wetenschappelijke publicatie in internationaal tijdschrift vermeldt in SCI of SSCI

1. Aung, T. and many others including R. Shetty (2017). "Genetic association study of exfoliation syndrome identifies a protective rare variant at LOXL1 and five new susceptibility loci." *Nat Genet* 49(7): 993-1004.
2. Bennis, A., J. G. Jacobs, L. A. E. Catsburg, J. B. Ten Brink, C. Koster, R. O. Schlingemann, J. van Meurs, T. Gorgels, P. D. Moerland, V. M. Heine and A. A. Bergen (2017). "Stem Cell Derived Retinal Pigment Epithelium: The Role of Pigmentation as Maturation Marker and Gene Expression Profile Comparison with Human Endogenous Retinal Pigment Epithelium." *Stem Cell Rev* 13(5): 659-669.
3. Brekelmans, J., A. Goz, M. M. Dickman, A. Brandis, X. Sui, H. D. Wagner, R. Nuijts, A. Scherz and A. L. Marcovich (2017). "Corneal Stiffening by a Bacteriochlorophyll Derivative With Dextran and Near-Infrared Light: Effect of Shortening Irradiation Time up to 1 Minute." *Cornea* 36(11): 1395-1401.
4. Brekelmans, J., A. Goz, M. M. Dickman, A. Brandis, X. Sui, H. D. Wagner, R. Nuijts, A. Scherz and A. L. Marcovich (2017). "Long-Term Biomechanical and Histologic Results of WST-D/NIR Corneal Stiffening in Rabbits, Up to 8 Months Follow-up." *Invest Ophthalmol Vis Sci* 58(10): 4089-4095.
5. De Clerck, E. E. B., J. S. A. G. Schouten, T. T. J. M. Berendschot, H. J. M. Beckers, N. C. Schaper, M. T. Schram, C. D. A. Stehouwer and C. A. B. Webers (2017). "Loss of Temporal Peripapillary Retinal Nerve Fibers in Prediabetes or Type 2 Diabetes Without Diabetic Retinopathy: The Maastricht Study Temporal RNFL Thinning in Prediabetes." *Investigative Ophthalmology & Visual Science* 58(2): 1017-1027.
6. de Crom, R. P. M. C., C. A. B. Webers, M. A. W. van Kooten-Noordzij, A. C. Michiels, J. S. A. G. Schouten, T. T. J. M. Berendschot and H. J. M. Beckers (2017). "Intraocular Pressure Fluctuations and 24-Hour Continuous Monitoring for Glaucoma Risk in Wind Instrument Players." *J Glaucoma* 26(10): 923-928.
7. Deng, J., J. Hu, H. Tan, G. Su, Q. Cao, X. Huang, A. Kijlstra and P. Yang (2017). "Association of a PDCD1 Polymorphism With Sympathetic Ophthalmia in Han Chinese." *Invest Ophthalmol Vis Sci* 58(10): 4218-4222.
8. de Vos, I. J., A. P. Stegmann, C. A. Webers and C. T. Stumpel (2017). "The 6p25 deletion syndrome: An update on a rare neurocristopathy." *Ophthalmic Genet* 38(2): 101-107.
9. Elissen, A. M. J., D. F. L. Hertroijs, N. C. Schaper, H. Bosma, P. C. Dagnelie, R. M. Henry, C. J. van der Kallen, A. Koster, M. T. Schram, C. D. A. Stehouwer, J. Schouten, T. Berendschot and D. Ruwaard (2017). "Differences in biopsychosocial profiles of diabetes patients by level of glycaemic control and health-related quality of life: The Maastricht Study." *PLoS One* 12(7): e0182053.
10. Elshout, M., C. A. Webers, M. I. van der Reis, Y. de Jong-Hesse and J. S. Schouten (2017). "Tracing the natural course of visual acuity and quality of life in neovascular age-related macular degeneration: a systematic review and quality of life study." *BMC Ophthalmol* 17(1): 120.

11. Huang, Y., H. Yu, Q. Cao, J. Deng, X. Huang, A. Kijlstra and P. Yang (2017). "The Association of Chemokine Gene Polymorphisms with VKH and Behcet's Disease in a Chinese Han Population." *Biomed Res Int* 2017: 1274960.
12. Jayadev, C., A. Vinekar, S. Mangalesh, M. K. Kummelil, A. K. Kumar, V. Kemmanu, M. Sivakumar, P. Mahendradas, K. Avadhani, N. Bauer, C. A. Webers and B. Shetty (2017). "Foveal Layer Morphology Detected on Spectral Domain Optical Coherence Tomography and its Correlation with Visual Acuity in Asian Indian Premature Infants in their First Year of Life." *Curr Eye Res* 42(5): 789-795.
13. Lundström, M., M. Dickman, Y. Henry, S. Manning, P. Rosen, M.-J. Tassignon, D. Young, U. Stenevi, C. Hodge, M. Lawless, T. V. Roberts, G. Sutton, W. Ingels, E. L. Mertens, M. Netukova, P. Stodulka, T. Herbst, D. Holland, T. Filkon, Z. Z. Nagy, L. Mastropasqua, L. Vecchiarino, E. Ligabue, L. Gualdi, M. Gualdi, G. Perone, F. Incarbone, R. Bellucci, M. Cagnoni, R. M. M. A. Nuijts, F. J. H. M. van den Biggelaar, J. L. Guëll, B. Ayoğlu, S. Göker, B. S. Asena, J. Barlett, S. Daya, M. Espinosa-Lagana, J. D. Stevens and C. Sunga (2017). "Femtosecond laser-assisted cataract surgeries reported to the European Registry of Quality Outcomes for Cataract and Refractive Surgery: Baseline characteristics, surgical procedure, and outcomes." *Journal of Cataract & Refractive Surgery* 43(12): 1549-1556.
14. Nuijts, R., R. Mencucci, K. Viaud-Quentric, P. P. Elena, C. Olmiere and A. Behndig (2017). "Ocular tolerance in rabbits after intracameral administration of a fixed combination of tropicamide, phenylephrine, and lidocaine with and without rinsing." *J Cataract Refract Surg* 43(5): 673-679.
15. Pahuja, N., R. Shroff, P. Pahanpate, M. Francis, L. Veeboy, R. Shetty, R. Nuijts and A. Sinha Roy (2017). "Application of high resolution OCT to evaluate irregularity of Bowman's layer in asymmetric keratoconus." *J Biophotonics* 10(5): 701-707.
16. Pahuja, N. K., R. Shetty, R. Deshmukh, A. Sharma, R. Nuijts, V. Jhanji, S. Sethu and A. Ghosh (2017). "In vivo confocal microscopy and tear cytokine analysis in post-LASIK ectasia." *Br J Ophthalmol* 101(12): 1604-1610.
17. Pahuja, N. K., R. Shetty, A. Sinha Roy, M. M. Thakkar, C. Jayadev, R. M. Nuijts and H. Nagaraja (2017). "Laser Vision Correction with Q Factor Modification for Keratoconus Management." *Curr Eye Res* 42(4): 542-548.
18. Qiu, Y., H. Yu, Y. Zhu, Z. Ye, J. Deng, W. Su, Q. Cao, G. Yuan, A. Kijlstra and P. Yang (2017). "Hypermethylation of Interferon Regulatory Factor 8 (IRF8) Confers Risk to Vogt-Koyanagi-Harada Disease." *Sci Rep* 7(1): 1007.
19. Qiu, Y., Y. Zhu, H. Yu, S. Yi, W. Su, Q. Cao, G. Yuan, A. Kijlstra and P. Yang (2017). "Ocular Behcet's disease is associated with aberrant methylation of interferon regulatory factor 8 (IRF8) in monocyte-derived dendritic cells." *Oncotarget* 8(31): 51277-51287.
20. Rao, H. L., S. V. Kadambi, R. N. Weinreb, N. K. Puttaiah, Z. S. Pradhan, D. A. S. Rao, R. S. Kumar, C. A. B. Webers and R. Shetty (2017). "Diagnostic ability of peripapillary vessel density measurements of optical coherence tomography angiography in primary open-angle and angle-closure glaucoma." *Br J Ophthalmol* 101(8): 1066-1070.
21. Rao, H. L., Z. S. Pradhan, R. N. Weinreb, S. Dasari, M. Riyazuddin, S. Raveendran, N. K. Puttaiah, J. P. Venugopal, D. A. S. Rao, S. Devi, K. Mansouri and C. A. B. Webers (2017). "Relationship of Optic Nerve Structure and Function to Peripapillary Vessel Density Measurements of Optical Coherence Tomography Angiography in Glaucoma." *J Glaucoma* 26(6): 548-554.
22. Rao, H. L., Z. S. Pradhan, R. N. Weinreb, S. Dasari, M. Riyazuddin, J. P. Venugopal, N. K. Puttaiah, D. A. S. Rao, S. Devi, K. Mansouri and C. A. B. Webers (2017). "Optical Coherence Tomography Angiography Vessel Density Measurements in Eyes With Primary Open-Angle Glaucoma and Disc Hemorrhage." *J Glaucoma* 26(10): 888-895.
23. Rao, H. L., Z. S. Pradhan, R. N. Weinreb, H. B. Reddy, M. Riyazuddin, S. Sachdeva, N. K. Puttaiah, C. Jayadev and C. A. B. Webers (2017). "Determinants of Peripapillary and Macular Vessel Densities Measured by Optical Coherence Tomography Angiography in Normal Eyes." *J Glaucoma* 26(5): 491-497.

24. Rao, H. L., Z. S. Pradhan, R. N. Weinreb, M. Riyazuddin, S. Dasari, J. P. Venugopal, N. K. Puttaiah, D. A. Rao, S. Devi, K. Mansouri and C. A. Webers (2017). "A comparison of the diagnostic ability of vessel density and structural measurements of optical coherence tomography in primary open angle glaucoma." *PLoS One* 12(3): e0173930.
25. Rao, H. L., Z. S. Pradhan, R. N. Weinreb, M. Riyazuddin, S. Dasari, J. P. Venugopal, N. K. Puttaiah, D. A. S. Rao, S. Devi, K. Mansouri and C. A. B. Webers (2017). "Vessel Density and Structural Measurements of Optical Coherence Tomography in Primary Angle Closure and Primary Angle Closure Glaucoma." *Am J Ophthalmol* 177: 106-115.
26. Shetty, R., M. Francis, R. Shroff, N. Pahuja, P. Khamar, M. Girrish, R. Nuijts and A. Sinha Roy (2017). "Corneal Biomechanical Changes and Tissue Remodeling After SMILE and LASIK." *Invest Ophthalmol Vis Sci* 58(13): 5703-5712.
27. Shetty, R., A. Sharma, N. Pahuja, P. Chevour, N. Padmajan, K. Dhamodaran, C. Jayadev, M. M. A. N. R., A. Ghosh and J. Nallathambi (2017). "Oxidative stress induces dysregulated autophagy in corneal epithelium of keratoconus patients." *PLoS One* 12(9): e0184628.
28. Shetty, R., R. Deshmukh, A. Ghosh, S. Sethu and C. Jayadev (2017). "Altered tear inflammatory profile in Indian keratoconus patients - The 2015 Col Rangachari Award paper." *Indian J Ophthalmol* 65(11): 1105-1108.
29. Shetty, R., S. Sureka, P. Kusumgar, S. Sethu and K. Sainani (2017). "Allergen-specific exposure associated with high immunoglobulin E and eye rubbing predisposes to progression of keratoconus." *Indian J Ophthalmol* 65(5): 399-402.
30. Sorensen, B. M., A. Houben, T. Berendschot, J. Schouten, A. A. Kroon, C. J. H. van der Kallen, R. M. A. Henry, A. Koster, P. C. Dagnelie, N. C. Schaper, M. T. Schram and C. D. A. Stehouwer (2017). "Cardiovascular risk factors as determinants of retinal and skin microvascular function: The Maastricht Study." *PLoS One* 12(10): e0187324.
31. Springelkamp, H., A. I. Iglesias, A. Mishra, R. Hohn, R. Wojciechowski, A. P. Khawaja, A. Nag, Y. X. Wang, J. J. Wang, G. Cuellar-Partida, J. Gibson, J. N. Bailey, E. N. Vithana, P. Gharahkhani, T. Boutin, W. D. Ramdas, T. Zeller, R. N. Luben, E. Yonova-Doing, A. C. Viswanathan, S. Yazar, A. J. Cree, J. L. Haines, J. Y. Koh, E. Souzeau, J. F. Wilson, N. Amin, C. Muller, C. Venturini, L. S. Kearns, J. H. Kang, N. Consortium, Y. C. Tham, T. Zhou, E. M. van Leeuwen, S. Nickels, P. Sanfilippo, J. Liao, H. van der Linde, W. Zhao, L. M. van Koolwijk, L. Zheng, F. Rivadeneira, M. Baskaran, S. J. van der Lee, S. Perera, P. T. de Jong, B. A. Oostra, A. G. Uitterlinden, Q. Fan, A. Hofman, E. S. Tai, J. R. Vingerling, X. Sim, R. C. Wolfs, Y. Y. Teo, H. G. Lemij, C. C. Khor, R. Willemsen, K. J. Lackner, T. Aung, N. M. Jansonius, G. Montgomery, P. S. Wild, T. L. Young, K. P. Burdon, P. G. Hysi, L. R. Pasquale, T. Y. Wong, C. C. Klaver, A. W. Hewitt, J. B. Jonas, P. Mitchell, A. J. Lotery, P. J. Foster, V. Vitart, N. Pfeiffer, J. E. Craig, D. A. Mackey, C. J. Hammond, J. L. Wiggs, C. Y. Cheng, C. M. van Duijn and S. MacGregor (2017). "New insights into the genetics of primary open-angle glaucoma based on meta-analyses of intraocular pressure and optic disc characteristics." *Hum Mol Genet* 26(2): 438-453.
32. Springelkamp, H., R. C. Wolfs, W. D. Ramdas, A. Hofman, J. R. Vingerling, C. C. Klaver and N. M. Jansonius (2017). "Incidence of glaucomatous visual field loss after two decades of follow-up: the Rotterdam Study." *European journal of epidemiology* 32(8):691-699
33. Subramani, M., M. Ponnalagu, L. Krishna, N. Jeyabalan, P. Chevour, A. Sharma, C. Jayadev, R. Shetty, N. Begum, G. Archunan and D. Das (2017). "Resveratrol reverses the adverse effects of bevacizumab on cultured ARPE-19 cells." *Sci Rep* 7(1): 12242.
34. Tan, A. N., C. A. Webers, T. T. Berendschot, J. de Brabander, P. M. de Witte, R. M. Nuijts, J. S. Schouten and H. J. Beckers (2017). "Corneal endothelial cell loss after Baerveldt glaucoma drainage device implantation in the anterior chamber." *Acta Ophthalmol* 95(1): 91-96.
35. Teja, R. K. V., T. T. J. M. Berendschot, H. Steinbusch, C. A. B. Webers, P. R. Murthy and P. S. Mathuranath (2017). "Cerebral and Retinal Neurovascular Changes: A Biomarker for Alzheimer's Disease." *J Gerontol Geriatr Res* 6(4).

36. van der Made, S. M., T. T. J. M. Berendschot, A. Kijlstra and J. Plat (2017). "One-year daily consumption of buttermilk drink containing lutein-enriched egg-yolks does not affect endothelial function in fasting and postprandial state." *Sci Rep* 7(1): 1353.
37. Van der Veer, E. G., N. A. van der Poel, M. M. de Win, R. J. Kloos, P. Saeed and M. P. Mourits (2017). "True abscess formation is rare in bacterial orbital cellulitis; consequences for treatment." *Am J Otolaryngol* 38(2): 130-134.
38. Wang, C., S. Cao, D. Zhang, H. Li, A. Kijlstra and P. Yang (2017). "Increased Complement 3a Receptor is Associated with Behcet's disease and Vogt-Koyanagi-Harada disease." *Sci Rep* 7(1): 15579.
39. Webers, V. S. C., N. J. C. Bauer, N. Visser, T. Berendschot, F. van den Biggelaar and R. Nuijts (2017). "Image-guided system versus manual marking for toric intraocular lens alignment in cataract surgery." *J Cataract Refract Surg* 43(6): 781-788.
40. Wielders, L. H., J. S. Schouten, M. R. Aberle, V. A. Lambermont, F. J. van den Biggelaar, B. Winkens, R. W. Simons and R. M. Nuijts (2017). "Treatment of cystoid macular edema after cataract surgery." *J Cataract Refract Surg* 43(2): 276-284.
41. Wu, L., X. Tan, L. Liang, H. Yu, C. Wang, D. Zhang, A. Kijlstra and P. Yang (2017). "The Role of Mitochondria-Associated Reactive Oxygen Species in the Amyloid beta Induced Production of Angiogenic Factors by ARPE-19 Cells." *Curr Mol Med* 17(2): 140-148.
42. Yang, L., L. Du, Y. Yue, Y. Huang, Q. Zhou, S. Cao, J. Qi, L. Liang, L. Wu, C. Wang, Z. Ye, Y. Tian, A. Kijlstra, S. Hou and P. Yang (2017). "miRNA Copy Number Variants Confer Susceptibility to Acute Anterior Uveitis With or Without Ankylosing Spondylitis." *Invest Ophthalmol Vis Sci* 58(4): 1991-2001.
43. Yang, Y., H. Tan, B. Deng, H. Yu, G. Su, J. Hu, Q. Cao, G. Yuan, A. Kijlstra and P. Yang (2017). "Genetic polymorphisms of C-type lectin receptors in Behcet's disease in a Chinese Han population." *Sci Rep* 7(1): 5348.
44. Yang, P., M. Zheng, L. Zhang, L. Du, Q. Zhou, T. Cai, J. Qi, L. Liang and A. Kijlstra (2017). "Uveitis in Chinese Patients with Psoriasis." *Ocul Immunol Inflamm* 25(6): 855-865.
45. Yu, H., M. Zheng, L. Zhang, H. Li, Y. Zhu, L. Cheng, L. Li, B. Deng, A. Kijlstra and P. Yang (2017). "Identification of susceptibility SNPs in IL10 and IL23R-IL12RB2 for Behcet's disease in Han Chinese." *J Allergy Clin Immunol* 139(2): 621-627.
46. Zhu, Y., Y. Qiu, H. Yu, S. Yi, W. Su, A. Kijlstra and P. Yang (2017). "Aberrant DNA methylation of GATA binding protein 3 (GATA3), interleukin-4 (IL-4), and transforming growth factor-beta (TGF-beta) promoters in Behcet's disease." *Oncotarget* 8(38): 64263-64272.
47. Zhu, Y., H. Yu, Y. Qiu, Z. Ye, W. Su, J. Deng, Q. Cao, G. Yuan, A. Kijlstra and P. Yang (2017). "Promoter Hypermethylation of GATA3, IL-4, and TGF-beta Confers Susceptibility to Vogt-Koyanagi-Harada Disease in Han Chinese." *Invest Ophthalmol Vis Sci* 58(3): 1529-1536.

#### Wetenschappelijke publicatie in internationaal tijdschrift

1. Karru Venkata Ravi, T., T. T. J. M. Berendschot, H. Steinbusch, C. A. B. Webers, R. Praveen Murthy and P. S. Mathuranath (2017). "Cerebral and Retinal Neurovascular Changes: A Biomarker for Alzheimer's Disease." *Journal of Gerontology & Geriatric Research* 6(-): 447.
2. Kijlstra, A., S. van der Made, J. Plat and T. T. J. M. Berendschot (2017). "Lipoprotein Changes Following Consumption of Lutein-enriched Eggs are Associated with Enhanced Lutein Bioavailability." *Journal of Food and Nutrition Research* 5(6): 362-369.
3. Mokhles, P., J. Schouten, H. Beckers and C. Webers (2017). "Does the World Health Organization criterion adequately define glaucoma blindness?" *Clin Ophthalmol* 11: 473-480.

## Editorial Material

1. Houben, A., T. Berendschot and G. Grassi (2017). "Retinal microvascular diameters: normative data and their use in clinical hypertension." *J Hypertens* 35(8): 1573-1574.
2. Mokhles, P., J. S. Schouten, H. J. Beckers, A. Azuara-Blanco, A. Tuulonen and C. A. Webers (2017). "Glaucoma blindness at the end of life." *Acta Ophthalmol* 95(1): 10-11.
3. Nuijts, R. and A. K. Brauwer (2017). "Editor's Comment." *J Cataract Refract Surg* 43(9): 1236.
4. Nuijts, R. and A. K. Brauwer (2017). "Presbyopia correction after previous refractive laser and cataract surgery: September consultation #1." *J Cataract Refract Surg* 43(9): 1230.
5. Nuijts, R. and I. Saelens (2017). "Delayed epithelial healing after photorefractive keratectomy: March consultation #1." *J Cataract Refract Surg* 43(3): 428.

## Letters to the editor

1. Shetty, R., S. Sureka, P. Kusumgar, S. Sethu and K. Sainani (2017). "Reply: Allergen-specific exposure associated with high immunoglobulin E and eye rubbing predisposes to progression of keratoconus." *Indian J Ophthalmol* 65(9): 900-901.
2. Sorensen, B. M., A. Houben, T. Berendschot, J. Schouten, A. A. Kroon, C. J. H. van der Kallen, R. M. A. Henry, A. Koster, K. D. Reesink, P. C. Dagnelie, N. C. Schaper, C. G. Schalkwijk, M. T. Schram and C. D. A. Stehouwer (2017). "Hyperglycemia Is the Main Mediator of Prediabetes- and Type 2 Diabetes-Associated Impairment of Microvascular Function: The Maastricht Study." *Diabetes Care* 40(8): e103-e105.

## Wetenschappelijke publicatie in nationaal tijdschrift

1. van der Poel, N. A., E. G. van der Veer, F. A. Ebbens, M. M. de Win, R. J. Kloos and M. P. Mourits (2017). "[Diagnosis and treatment of orbital cellulitis]." *Ned Tijdschr Geneesk* 161(0): D1342.
2. Kijlstra, A. Luteïne en het complement systeem: twee intrigerende spelers in het veld van macula-degeneratie. Nieuwsbrief Macula Fonds, februari 2017

## Congrespaper/proceedings paper

1. Huang, F., B. Dashtbozorg, A. K. S. Yeung, J. Zhang, T. T. J. M. Berendschot and B. M. ter Haar Romeny (2017). A Comparative Study Towards the Establishment of an Automatic Retinal Vessel Width Measurement Technique. Fetal, Infant and Ophthalmic Medical Image Analysis. M. J. Cardoso, T. Arbel, A. Melbourne et al. Cham, Springer International Publishing: 227-234.

## Octrooi aangevraagd in 2017

1. Bertens, C.J.F., Gijs, M., Nuijts, R.M.M.A., Apparatus for handling a rod shaped element to be inserted into or removed from the eye of a patient. (21-dec-2017, #384 EPP0)