

CV and Financial Disclosure of Board

Name: Professor Frank G. Holz, FEBO

Main Employment

Hospital/University/Private Practice: Department of Ophthalmology, University of Bonn, Germany

Location: Bonn, Germany

Position: Professor and Chair

Curriculum Vitae

Medical School: University of Heidelberg, University of Chicago

Other Degrees:

Primary Fields of Interest: Medical and Surgical Retina

Research Interests: Pathogenesis and treatment of macular diseases, dry AMD, retinal imaging, fundus autofluorescence, molecular imaging, biomarker

Other Interests:

Publications over past 5 years: *see list below*

Financial Declaration for 2014

1) Payment to you directly for services you have provided (speaker fees, honoraria, consultancy, advisory board fees, investigator etc)

Alcon, Bayer, Genentech, Heidelberg Engineering, Novartis, Roche

2) Payment to your institution for services you have provided (speaker fees, honoraria, consultancy, advisory board fees, investigator etc)

Nothing to declare

3) Personal investment in a pharmaceutical or medical device company

Nothing to declare

4) Payment of royalties for intellectual property in a pharmaceutical or medical device company

Nothing to declare

5) Research funding received personally

Nothing to declare

6) Research funding received by your department or institution for research you are carrying out

Acucela, Alcon, Allergan, Bayer, Genentech, Heidelberg Engineering, Novartis, Optos, Thrombogenics, Roche

7) Receive travel funding for meetings, full or partial

Nothing to declare

8) Any other financial interests

Nothing to declare

Publications over past 5 years:

- 1: Holz FG, Steinberg JS, Göbel A, Fleckenstein M, Schmitz-Valckenberg S. Fundus autofluorescence imaging in dry AMD: 2014 Jules Gonin lecture of the Retina Research Foundation. *Graefes Arch Clin Exp Ophthalmol*. 2015 Jan;253(1):7-16. doi: 10.1007/s00417-014-2858-1. Epub 2014 Nov 19. PubMed PMID: 25408425.
- 2: Krohne TU, Muether PS, Stratmann NK, Holz FG, Kirchhof B, Meyer CH, Fauser S. Influence of ocular volume and lens status on pharmacokinetics and duration of action of intravitreal vascular endothelial growth factor inhibitors. *Retina*. 2015 Jan;35(1):69-74. doi: 10.1097/IAE.0000000000000265. PubMed PMID: 25077535.
- 3: Becker EJ, Herwig MC, Holz FG, Kuchelmeister K, Thomas D, Charbel-Issa P, Löffler KU. [Orbital metastasis of a previously unknown lung carcinoma mimicking posterior ischemic optic neuropathy.]. *Ophthalmologe*. 2014 Dec 19. [Epub ahead of print] German. PubMed PMID: 25520143.
- 4: Augustin AJ, Holz FG, Haritoglou C, Mayer WJ, Bopp S, Scheuerle AF, Maier M, Sekundo W, Sandner D, Shirlaw A, Hattenbach LO. Retrospective, Observational Study in Patients Receiving a Dexamethasone Intravitreal Implant 0.7 mg for Macular Oedema Secondary to Retinal Vein Occlusion. *Ophthalmologica*. 2014 Dec 5. [Epub ahead of print] PubMed PMID: 25503473.
- 5: Gliem M, Holz FG, Stöhr H, Weber BH, Charbel Issa P. X-linked juvenile retinoschisis in a consanguineous family: phenotypic variability and report of a homozygous female patient. *Retina*. 2014 Dec;34(12):2472-8. doi: 10.1097/IAE.0000000000000243. PubMed PMID: 25054456.
- 6: Steinberg JS, Auge J, Fleckenstein M, Holz FG, Schmitz-Valckenberg S. Longitudinal Analysis of Reticular Drusen Associated with Age-Related Macular Degeneration Using Combined Confocal Scanning Laser Ophthalmoscopy and Spectral-Domain Optical Coherence Tomography Imaging. *Ophthalmologica*. 2014 Nov 19. [Epub ahead of print] PubMed PMID: 25413846.
- 7: Meyer LM, Wegener AR, Holz FG, Kronschläger M, Bergmanson JP, Soderberg PG. Ultrastructure of UVR-B-induced cataract and repair visualized with electron microscopy. *Acta Ophthalmol*. 2014 Nov;92(7):635-43. doi: 10.1111/aos.12376. Epub 2014 Mar 25. PubMed PMID: 24666994.
- 8: Ogura Y, Roeder J, Korobelnik JF, Holz FG, Simader C, Schmidt-Erfurth U, Vittori R, Berliner AJ, Hiemeyer F, Stemper B, Zeitz O, Sandbrink R; GALILEO Study Group; GALILEO Study Group. Intravitreal Aflibercept for Macular Edema Secondary to Central Retinal Vein Occlusion: 18-Month Results of the Phase 3 GALILEO Study. *Am J Ophthalmol*. 2014 Nov;158(5):1032-1038.e2. doi: 10.1016/j.ajo.2014.07.027. Epub 2014 Jul 25. PubMed PMID: 25068637.
- 9: Boyer DS, Goldbaum M, Leys AM, Starita C; V.I.S.I.O.N. Study Group. Effect of

pegaptanib sodium 0.3 mg intravitreal injections (Macugen) in intraocular pressure: posthoc analysis from V.I.S.I.O.N. study. *Br J Ophthalmol*. 2014 Nov;98(11):1543-6. doi: 10.1136/bjophthalmol-2013-304075. Epub 2014 Jul 4. PubMed PMID: 24997182.

10: Korobelnik JF, Do DV, Schmidt-Erfurth U, Boyer DS, Holz FG, Heier JS, Midena E, Kaiser PK, Terasaki H, Marcus DM, Nguyen QD, Jaffe GJ, Slakter JS, Simader C, Soo Y, Schmelter T, Yancopoulos GD, Stahl N, Vitti R, Berliner AJ, Zeitz O, Metzger C, Brown DM. Intravitreal aflibercept for diabetic macular edema. *Ophthalmology*. 2014 Nov;121(11):2247-54. doi: 10.1016/j.ophtha.2014.05.006. Epub 2014 Jul 8. PubMed PMID: 25012934.

11: Fleckenstein M, Schmitz-Valckenberg S, Holz FG. Author response: Geographic atrophy and cardiovascular disease. *Invest Ophthalmol Vis Sci*. 2014 Oct 8;55(10):6263-4. doi: 10.1167/iovs.14-15598. PubMed PMID: 25298508.

12: Hh AE, Holz FG, Dithmar S. [Bilateral diffuse uveal melanocytic proliferation in a patient with metastatic breast cancer]. *Ophthalmologe*. 2014 Oct;111(10):961-4. doi: 10.1007/s00347-014-3019-y. German. PubMed PMID: 24589755.

13: Cunha-Vaz J, Ashton P, Iezzi R, Campochiaro P, Dugel PU, Holz FG, Weber M, Danis RP, Kuppermann BD, Bailey C, Billman K, Kapik B, Kane F, Green K; FAME Study Group. Sustained delivery fluocinolone acetonide vitreous implants: long-term benefit in patients with chronic diabetic macular edema. *Ophthalmology*. 2014 Oct;121(10):1892-903. doi: 10.1016/j.ophtha.2014.04.019. Epub 2014 Jun 14. PubMed PMID: 24935282.

14: Boyer DS, Yoon YH, Belfort R Jr, Bandello F, Maturi RK, Augustin AJ, Li XY, Cui H, Hashad Y, Whitcup SM; Ozurdex MEAD Study Group. Three-year, randomized, sham-controlled trial of dexamethasone intravitreal implant in patients with diabetic macular edema. *Ophthalmology*. 2014 Oct;121(10):1904-14. doi: 10.1016/j.ophtha.2014.04.024. Epub 2014 Jun 4. PubMed PMID: 24907062.

15: Holz FG, Tadayoni R, Beatty S, Berger A, Cereda MG, Cortez R, Hoyng CB, Hykin P, Staurengi G, Heldner S, Bogumil T, Heah T, Sivaprasad S. Multi-country real-life experience of anti-vascular endothelial growth factor therapy for wet age-related macular degeneration. *Br J Ophthalmol*. 2014 Sep 5. pii: bjophthalmol-2014-305327. doi: 10.1136/bjophthalmol-2014-305327. [Epub ahead of print] PubMed PMID: 25193672.

16: Meyer J, Cunea A, Sonntag-Bensch D, Welker P, Licha K, Holz FG, Schmitz-Valckenberg S. In vivo imaging of a new indocyanine green micelle formulation in an animal model of laser-induced choroidal neovascularization. *Invest Ophthalmol Vis Sci*. 2014 Sep 4;55(10):6204-12. doi: 10.1167/iovs.13-13617. PubMed PMID: 25190666.

17: Gliem M, Holz FG, Charbel Issa P. Reply: To PMID 24727260. *Am J Ophthalmol*. 2014 Sep;158(3):645. doi: 10.1016/j.ajo.2014.05.033. PubMed PMID: 25132252.

18: Holz FG, Heeren TF, Krger E, Zeimer M, Pauleikhoff D, Charbel Issa P.

[Therapeutic approaches for macular telangiectasia type 2: status quo and perspectives]. *Ophthalmologie*. 2014 Sep;111(9):834-8. doi: 10.1007/s00347-014-3084-2. German. PubMed PMID: 25204529.

19: Heeren TF, Krüger E, Holz FG, Charbel Issa P. [Functional characteristics of macular telangiectasia type 2]. *Ophthalmologie*. 2014 Sep;111(9):829-33. doi: 10.1007/s00347-014-3083-3. German. PubMed PMID: 25204528.

20: Charbel Issa P, Heeren TF, Krüger E, Zeimer M, Pauleikhoff D, Holz FG. [Morphological characteristics in macular telangiectasia type 2]. *Ophthalmologie*. 2014 Sep;111(9):819-28. doi: 10.1007/s00347-014-3082-4. German. PubMed PMID: 25204527.

21: Charbel Issa P, Pauleikhoff D, Holz FG. [Macular telangiectasia type 2: The international MacTel project]. *Ophthalmologie*. 2014 Sep;111(9):817-8. doi: 10.1007/s00347-014-3081-5. German. PubMed PMID: 25204526.

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24: Auge J, Steinberg JS, Fleckenstein M, Holz FG, Schmitz-Valckenberg S. [Reticular drusen over time with SD-OCT]. *Ophthalmologie*. 2014 Aug;111(8):765-71. doi: 10.1007/s00347-013-2965-0. German. PubMed PMID: 24114561.

25: Steinberg JS, Herwig MC, Holz FG, Loeffler KU. [Peripheral ulcerative keratitis in a 24-year-old patient]. *Ophthalmologie*. 2014 Aug;111(8):772-4. doi: 10.1007/s00347-013-2947-2. German. PubMed PMID: 24046173.

26: Gliem M, Fimmers R, Müller PL, Brinkmann CK, Finger RP, Hendig D, Holz FG, Charbel Issa P. Choroidal changes associated with Bruch membrane pathology in pseudoxanthoma elasticum. *Am J Ophthalmol*. 2014 Jul;158(1):198-207.e3. doi: 10.1016/j.ajo.2014.04.005. Epub 2014 Apr 13. PubMed PMID: 24727260.

27: Wong TY, Ohno-Matsui K, Leveziel N, Holz FG, Lai TY, Yu HG, Lanzetta P, Chen Y, Tufail A. Myopic choroidal neovascularisation: current concepts and update on clinical management. *Br J Ophthalmol*. 2014 Jul 1. pii: bjophthalmol-2014-305131. doi: 10.1136/bjophthalmol-2014-305131. [Epub ahead of print] Review. PubMed PMID: 24990871.

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29: Bernhard HF, Holz FG. In reply. Dtsch Arztebl Int. 2014 May 16;111(20):366. doi: 10.3238/arztebl.2014.0366b. PubMed PMID: 24882633; PubMed Central PMCID: PMC4047609.

30: Fleckenstein M, Schmitz-Valckenberg S, Lindner M, Bezatis A, Becker E, Fimmers R, Holz FG; Fundus Autofluorescence in Age-Related Macular Degeneration Study Group. The "diffuse-trickling" fundus autofluorescence phenotype in geographic atrophy. Invest Ophthalmol Vis Sci. 2014 May 2;55(5):2911-20. doi: 10.1167/iovs.13-13409. PubMed PMID: 24699379.

31: Pielen A, Wilhelm B, Holz F. Empfehlungen der DOG zu Publikationsregelungen in Multizenterstudien. Ophthalmologe. 2014 May;111(5):498-9. German. PubMed PMID: 24959645.

32: Finger RP, Holz FG. [Health services for patients with neovascular age-related macular degeneration in Germany]. Ophthalmologe. 2014 May;111(5):438-42. doi: 10.1007/s00347-013-2922-y. German. PubMed PMID: 24838864.

33: Schmidt-Erfurth U, Lang GE, Holz FG, Schlingemann RO, Lanzetta P, Massin P, Gerstner O, Bouazza AS, Shen H, Osborne A, Mitchell P; RESTORE Extension Study Group. Three-year outcomes of individualized ranibizumab treatment in patients with diabetic macular edema: the RESTORE extension study. Ophthalmology. 2014 May;121(5):1045-53. doi: 10.1016/j.ophtha.2013.11.041. Epub 2014 Feb 1. PubMed PMID: 24491642.

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35: Heeren TF, Holz FG, Charbel Issa P. First symptoms and their age of onset in macular telangiectasia type 2. Retina. 2014 May;34(5):916-9. doi: 10.1097/IAE.000000000000082. PubMed PMID: 24351446.

36: Holz FG, Schmitz-Valckenberg S, Fleckenstein M. Recent developments in the treatment of age-related macular degeneration. J Clin Invest. 2014 Apr 1;124(4):1430-8. doi: 10.1172/JCI71029. Epub 2014 Apr 1. Review. PubMed PMID: 24691477; PubMed Central PMCID: PMC3973093.

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42: Stanzel BV, Liu Z, Somboonthanakij S, Wongsawad W, Brinken R, Eter N, Corneo B, Holz FG, Temple S, Stern JH, Blenkinsop TA. Human RPE stem cells grown into polarized RPE monolayers on a polyester matrix are maintained after grafting into rabbit subretinal space. *Stem Cell Reports.* 2014 Jan 2;2(1):64-77. doi: 10.1016/j.stemcr.2013.11.005. eCollection 2014 Jan 14. PubMed PMID: 24511471; PubMed Central PMCID: PMC3916756.

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2013)]. *Klin Monbl Augenheilkd.* 2013 Nov;230(11):1157-61. doi: 10.1055/s-0033-1351015. Epub 2013 Nov 15. German. PubMed PMID: 24243478.

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56: Gliem M, Finger RP, Fimmers R, Brinkmann CK, Holz FG, Charbel Issa P.

Treatment of choroidal neovascularization due to angioid streaks: a comprehensive review. *Retina*. 2013 Jul-Aug;33(7):1300-14. doi: 10.1097/IAE.0b013e3182914d2b. Review. PubMed PMID: 23719398.

57: Steinberg JS, Auge J, Jaffe GJ, Fleckenstein M, Holz FG, Schmitz-Valckenberg S; GAP Study Group. Longitudinal analysis of reticular drusen associated with geographic atrophy in age-related macular degeneration. *Invest Ophthalmol Vis Sci*. 2013 Jun 10;54(6):4054-60. doi: 10.1167/iovs.12-11538. PubMed PMID: 23633663.

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62: Meyer LM, Löfgren S, Holz FG, Wegener A, Söderberg P. Bilateral cataract induced by unilateral UVR-B exposure -- evidence for an inflammatory response. *Acta Ophthalmol*. 2013 May;91(3):236-42. doi: 10.1111/j.1755-3768.2012.02384.x. Epub 2012 Mar 28. PubMed PMID: 22458592.

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Details: