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## Quantitative retinal imaging with optical coherence tomography

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# Chapter 9 |

## List of Publications

M. G. O. Gräfe, M. Gondre, and J. F. de Boer, "Precision analysis and optimization in phase decorrelation OCT velocimetry," *Biomed Opt Express* **10**, 1297-1314 (2019).

M. G. O. Gräfe, O. Nadiarnykh, and J. F. De Boer, "Optical coherence tomography velocimetry based on decorrelation estimation of phasor pair ratios (DEPPAIR)," *Biomed Opt Express* **10**, 5470-5485 (2019).

M. G. O. Gräfe\*, J. A. van de Kreeke\*, J. Willemse, B. Braaf, Y. de Yong, H. S. Tan, F. D. Verbraak, and J. F. de Boer, "Subretinal Fibrosis Detection Using Polarization Sensitive Optical Coherence Tomography" *Translational Vision Science & Technology* **9**, 13 (2020)

J. Willemse, M. G. O. Gräfe, J. A. van de Kreeke, F. Feroldi, F. D. Verbraak, and J. F. de Boer, "Optic axis uniformity as a metric to improve the contrast of birefringent structures and analyze the retinal nerve fiber layer in polarization-sensitive optical coherence tomography," *Opt Lett* **44**, 3893-3896 (2019).

B. Braaf, M. G. O. Gräfe, N. Uribe-Patarroyo, B. E. Bouma, B. J. Vakoc, J. F. de Boer, S. Donner, and J. Weichsel, "OCT-Based Velocimetry for Blood Flow Quantification," in *High Resolution Imaging in Microscopy and Ophthalmology: New Frontiers in Biomedical Optics*, J. F. Bille, ed. (Springer International Publishing, Cham, 2019), pp. 161-179.

O. Nadiarnykh, V. Davidoiu, M. G. O. Gräfe, M. Bosscha, A. C. Moll, and J. F. de Boer, "Phase-based OCT angiography in diagnostic imaging of pediatric retinoblastoma patients: abnormal blood vessels in post-treatment regression patterns," *Biomed Opt Express* **10**, 2213-2226 (2019).

F. Feroldi, J. Willemse\*, V. Davidoiu\*, M. G. O. Gräfe, D. J. van Iperen, A. W. M. Goorsenberg, J. T. Annema, J. M. A. Daniels, P. I. Bonta, and J. F. de Boer, "In vivo multifunctional optical coherence tomography at the periphery of the lungs," *Biomed Opt Express* **10**, 3070-3091 (2019).

J. H. de Jong, B. Braaf, S. Amarakoon, M. Gräfe, S. Yzer, K. A. Vermeer, T. Missotten, J. F. de Boer, and M. E. J. van Velthoven, "Treatment Effects in Retinal Angiomatous Proliferation Imaged with OCT Angiography," *Ophthalmologica* **241**, 143-153 (2019).

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## Publications outside the scope of this thesis

M. G. O. Gräfe, A. Hoffmann, and C. Spielmann, "Ultrafast fluorescence spectroscopy for axial resolution of fluororophore distributions," *Applied Physics B* **117**, 833-840 (2014).

A. Hoffmann, M. Zürch, M. Gräfe, and C. Spielmann, "Spectral broadening and compression of sub-millijoule laser pulses in hollow-core fibers filled with sulfur hexafluoride," *Opt Express* **22**, 12038-12045 (2014).

M. Zürch, A. Hoffmann, M. Gräfe, B. Landgraf, M. Riediger, and C. Spielmann, "Characterization of a broadband interferometric autocorrelator for visible light with ultrashort blue laser pulses," *Opt Commun* **321**, 28-31 (2014).