

## Curriculum Vitae

Gereon Hüttmann Professor, Dr. rer nat.  
d.o.b. March 04th, 1962, in Herne, Germany

### University Education

2013 Habilitation and Venia legendi in Biomedical Optics, University of Lübeck, Germany  
1992 Ph.D. in Physical Chemistry at the University of Göttingen, Germany  
1982–1978 Studies of Physics at the Universities of Braunschweig and Göttingen, Germany

### Scientific Career

2018 - 2020 Mentor of the spin-off Visotec GmbH  
2018 - Member of the Excellence Cluster Precision Medicine in Chronic Inflammation (PMI)  
2018 Appointment as extraordinary professor at the  
2011 - Member of the German Center for Lung Research  
2010 - Deputy director of the Institute of Biomedical Optics  
2008 - 2010 Mentor of the spin-off Optomedical Technologies GmbH  
2006 - 2010 Consultant and member of the advisory board Thorlabs HL AG  
2005 - Senior Research Associate at the Institute of Biomedical Optics  
1997 - Senior Scientist and group leader at the Medical Laser Center Lübeck, Germany  
1992 - 1997 Postdoctoral Fellow, Medical Laser Center GmbH  
1988 - 1992 Scientist at Max Planck Institute of Biophysical Chemistry

### Awards and Honors

2019 Thomas Fredenhagen award 2019 for transfer and economic cooperation

### Citation Record

*Total citations: 9,487; h-index:48; h-index since 2019: 30* (Google Scholar August 19<sup>th</sup>, 2024)

## Top-10 selected Publications

Hillmann, D.; Spahr, H.; Hain, C.; Sudkamp, H.; Franke, G.; Pfäffle, C.; Winter, C.; Hüttmann, G. Aberration-free volumetric high-speed imaging of in vivo retina. *Sci Rep* 2016, 6, 35209. DOI: 10.1038/srep35209.

Hillmann, D.; Spahr, H.; Pfäffle, C.; Sudkamp, H.; Franke, G.; Hüttmann, G. In vivo optical imaging of physiological responses to photostimulation in human photoreceptors. *Proc Natl Acad Sci U S A* 2016, 113 (46), 13138-13143. DOI: 10.1073/pnas.1606428113.

Rudnitski, F.; Feineis, S.; Rahmzadeh, R.; Endl, E.; Lutz, J.; Groll, J.; Hüttmann, G. siRNA release from gold nanoparticles by nanosecond pulsed laser irradiation and analysis of the involved temperature increase. *Journal of Biophotonics* 2018, 11 (9), e201700329. DOI: 10.1002/jbio.201700329.

Sudkamp, H.; Hillmann, D.; Koch, P.; Endt, M. v.; Spahr, H.; Münst, M.; Pfäffle, C.; Birngruber, R.; Hüttmann, G. A simple approach for aberration-corrected OCT imaging of the human retina. *Opt. Lett.* 2018, 43 (17), 4224-4227. DOI: 10.1364/OL.43.004224.

Hillmann, D.; Pfäffle, C.; Spahr, H.; Burhan, S.; Kutzner, L.; Hilge, F.; Hüttmann, G. Computational adaptive optics for optical coherence tomography using multiple randomized subaperture correlations. *Opt Lett* 2019, 44 (15), 3905-3908. DOI: 10.1364/OL.44.003905.

Pfäffle, C.; Spahr, H.; Kutzner, L.; Burhan, S.; Hilge, F.; Miura, Y.; Hüttmann, G.; Hillmann, D. Simultaneous functional imaging of neuronal and photoreceptor layers in living human retina. *Opt Lett* 2019, 44 (23), 5671-5674. DOI: 10.1364/OL.44.005671.

Rahmzadeh, R.; Rudnitski, F.; Hüttmann, G. Two ways to inactivate the Ki-67 protein-Fragmentation by nanoparticles, crosslinking with fluorescent dyes. *J Biophotonics* 2019, 12 (9), e201800460. DOI: 10.1002/jbio.201800460.

Kohlfaerber, T.; Pieper, M.; Münter, M.; Holzhausen, C.; Ahrens, M.; Idel, C.; Bruchhage, K.-L.; Leichtle, A.; König, P.; Hüttmann, G.; et al. Dynamic microscopic optical coherence tomography to visualize the morphological and functional micro-anatomy of the airways. *Biomed Opt Express* 2022, 13 (6), 3211 - 3223. DOI: 10.1364/boe.456104.

Puyo, L.; Pfäffle, C.; Spahr, H.; Franke, J.; Bublitz, D.; Hillmann, D.; Hüttmann, G. Diffuse-illumination holographic optical coherence tomography. *Opt Express* 2023, 31 (20), 33500-33517. DOI: 10.1364/OE.498654

Pfäffle, C.; Puyo, L.; Spahr, H.; Hillmann, D.; Miura, Y.; Hüttmann, G. Unraveling the functional signals of rods and cones in the human retina: separation and analysis. *Frontiers in Ophthalmol* 2024, 4, 1340692. DOI: 10.3389/fopht.2024.1340692.