



Dr med Dr sc nat Mathias Abegg

Specialist in ophthalmology, specialising in ophthalmic surgery

Languages

DE

Education

- 2010 Fellowship in strabismus surgery, Rotterdam Eye Hospital, Holland
- 2004–2007 Resident at the University Eye Clinics in Zurich and Bern
- 2000–2004 International PhD programme in Neuroscience, Centre for Neuroscience Zurich
- 1999–2004 MD/PhD programme at the Institute for Brain Research Zurich
- 1993–1999 Medical studies in Zurich and Lausanne

Work Experience

- since 2022 Co-owner and ophthalmologist, ONOVIS eye practice, Berne
- 2014–2022 Head of Orthoptics, University Clinic for Ophthalmology, Inselspital, Bern
- 2010–2014 Senior Physician, Department of Ophthalmology, Inselspital, Bern
- 2008–2009 Fellow in Neuroophthalmology, University of British Columbia, Canada
- 2006–2007 Resident, Department of Ophthalmology, Inselspital, Bern
- 2004–2006 Resident, University Hospital Zurich
- 1999–2004 PhD student, Institute for Brain Research, Zurich

Competences

Professional qualifications / degrees

- 2017 - Associate professorship, University of Bern
- 2017 - Specialist title "Ophthalmic Surgery"
- 2014 - Habilitation, University of Bern
- 2008 - Specialist FMH & F.E.B.O. for ophthalmology,
- 2005 - Doctorate (Dr sc.nat.), University of Zurich
Dissertation title: "Neurotransmission in the Injured Brain"
- 2003 - Diploma in Neurobiology, Physiology and Molecular Biology, University of Zurich
- 2001 - Doctorate in Medicine, University of Zurich
Dissertation title: "Therapeutic Strategies in Retinitis Pigmentosa: light at te End of the Tunnel"

Publications

- Belachew, Nebiyat F., Severin Baschung, William Almiri, Ruben Encinas, Johannes Kaesmacher, Tomas Dobrocky, Christoph J. Schankin, et al. "Casper Versus Precise Stent for the Treatment of Patients with Idiopathic Intracranial Hypertension." *Clinical Neuroradiology*, May 18, 2021. <https://doi.org/10.1007/s00062-021-01024-2>.
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- Bruegger, D., and M. Abegg. "Prediction of Cortical Theta Oscillations in Humans for Phase-Locked Visual Stimulation." *Journal of Neuroscience Methods* 361 (September 1, 2021): 109288. <https://doi.org/10.1016/j.jneumeth.2021.109288>.
- Kucur, Şerife Seda, Sebastian Häckel, Jan Stapelfeldt, Jeannine Odermatt, Milko E. Iliev, Mathias Abegg, Raphael Sznitman, and Rene Höhn. "Comparative Study Between the SORS and Dynamic Strategy Visual Field Testing Methods on Glaucomatous and Healthy Subjects." *Translational Vision Science & Technology* 9, no. 13 (December 2, 2020). <https://doi.org/10.1167/tvst.9.13.3>.
- Veselaj, Krenar, Nicole Kamber, Myriam Briner, Christoph Friedli, Lara Diem, Kirsten Guse, Andrei Miclea, et al. "Evaluation of Diagnostic Criteria and Red Flags of Myelin Oligodendrocyte Glycoprotein Encephalomyelitis in a Clinical Routine Cohort." *CNS Neuroscience & Therapeutics*, October 13, 2020. <https://doi.org/10.1111/cns.13461>.
- Kucur, Şerife Seda, Pablo Márquez-Neila, Mathias Abegg, and Raphael Sznitman. "Patient-Attentive Sequential Strategy for Perimetry-Based Visual Field Acquisition." *Medical Image Analysis* 54 (2019): 179-92.
- Mühlemann, Fabian, Hilary Grabe, Anthony Fok, Franca Wagner, Dominik Brügger, Claire A. Sheldon, and Mathias Abegg. "Homonymous Hemiatrophy of Ganglion Cell Layer from Retrochiasmal Lesions in the Visual Pathway." *Neurology* 94, no. 3 (21 2020): e323-29.
- Vicini, Rino, Dominik Brügger, Mathias Abegg, Anke Salmen, and Hilary Michelle Grabe. "Differences in Morphology and Visual Function of Myelin Oligodendrocyte Glycoprotein Antibody and Multiple Sclerosis Associated Optic Neuritis." *Journal of Neurology*, August 12, 2020.
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- Dysli M, Ebnetter A, Menke M, Zinkernagel M, Wolf S, Grabe H and Abegg M. Patients with Epiretinal Membranes Display Retrograde Maculopathy after Surgical Peeling of the Internal Limiting Membrane *Retina* (Philadelphia, Pa.), August 29, 2018.
- Feil M, Abegg Meinrad and Abegg Mathias. "Timing of Concurrent Visual Stimuli Determines Modulation of Saccadic Amplitude." *Journal of Vision* 18, no. 11 (October 1, 2018): 8.
- Mekabaty A, Gralla J, Meier N, Abegg M, Raabe A and Mordasini P. Sinus Stenting of Idiopathic Intracranial Hypertension. *Swiss Medical Forum* 18, no. 1 (2018): 26-28.
- Borruat F, Dysli M, Voide N, and Abegg M. Acetazolamide Reduces Retinal Inner Nuclear Layer Thickness in Microcystic Macular Edema Secondary to Optic Neuropathy. *European Neurology*, 2018, 150-53.
- Feil M, Moser B and Abegg M. The Interaction of Pupil Response with the Vergence System. *Graefe's Archive for Clinical and Experimental Ophthalmology*, 16 August 2017.
- Brazerol J, Iliev ME, Höhn R, Fränkl S, Grabe H, Abegg M. Retrograde Maculopathy in Patients With Glaucoma. *J Glaucoma*. Feb 6 [Epub ahead of print] (2017).
- Christen M and Abegg M. The effect of magnification and contrast on reading performance in different types of simulated low vision. *Journal of Eye Movement Research*, [S.l.], v. 10, n. 2, May 2017
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Abegg M, Dysli M, Wolf S, Kowal J, Dufour P, Zinkernagel M. Microcystic macular edema: retrograde maculopathy caused by optic neuropathy. *Ophthalmology.* 2014;121(1):142-149. doi:10.1016/j.ophtha.2013.08.045.

Abegg M, Zinkernagel M, Wolf S. Microcystic macular degeneration from optic neuropathy. *Brain.* 2012;135(Pt 12):e225.

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Book chapter

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- Hafezi F, Abegg M, Remé Ch.E *Light damage in the eye. An overview*. edited by: C.Erb/ J.Flammer *Risk factors for eye diseases*. Verlag Hans Huber (1998).
- Abegg M and Barton J *Visual Dysfunction From Lesions of the Cerebral Cortex* Book chapter for Duane's Ophthalmology, Lippincott Williams & Wilkins

Accreditation

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