



Dr. med. Dr. sc. nat. Mathias Abegg

Spécialiste en ophtalmologie, spéc. en ophtalmochirurgie

Lingue

DE

Formazione

- 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

Esperienze professionali

- dal 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

Competenze

Qualifications professionnelles / diplômes

- 2017 - Professeur associé, Université de Berne
- 2017 - Titre de formation approfondie "Ophtalmochirurgie".
- 2014 - Habilitation, Université de Berne
- 2008 - Spécialiste FMH & F.E.B.O. en ophtalmologie,
- 2005 - Doctorat en sciences, Université de Zurich
Titre de la thèse : "Neurotransmission in the Injured Brain".
- 2003 - Diplôme de neurobiologie, physiologie et biologie moléculaire, Université de Zurich

2001 - Doctorat en médecine, Université de Zurich

Titre de la thèse : "Therapeutic Strategies in Retinitis Pigmentosa : light at te End of the Tunnel" (stratégies thérapeutiques dans la rétinite pigmentaire : lumière au bout du tunnel)

Pubblicazioni

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>.

Morrison, Miranda, Hassen Kerkeni, Athanasia Korda, Simone Räss, Marco D. Caversaccio, Mathias Abegg, Erich Schneider, and Georgios Mantokoudis. "Automated Alternate Cover Test for 'HINTS' Assessment: A Validation Study." *European Archives of Oto-Rhino-Laryngology*, July 23, 2021. <https://doi.org/10.1007/s00405-021-06998-w>.

Petroulia, Valentina Daphne, Dominik Brügger, Robert Hoepner, Rino Vicini, Anna Winklehner, Mathias Abegg, and Franca Wagner. "MRI Signs Helpful in the Differentiation of Patients with Anterior Ischaemic Optic Neuropathy and Optic Neuritis." *The British Journal of Ophthalmology*, July 19, 2021. <https://doi.org/10.1136/bjophthalmol-2021-319537>.

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.

Abegg M, Ebnetter A and Dysli M. Reply. *Retina* (Philadelphia, Pa.), February 25, 2019.

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.

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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.

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Abegg M and Gentile E Visual training in children. *Therapeutic Review* 73(2):73-7; (2016)

Ebneter A, Jaggi D, Abegg M, Wolf S and Zinkernagel M Relationship between presumptive inner nuclear layer thickness and geographic atrophy progression in age-related macular degeneration *Invest Ophthalmol Vis Sci*. Jul 1;57(9):OCT 299-306 (2016).

Dysli M and Abegg M. Gaze Dependent Phoria and Vergence Adaptation. *Journal of Vision*. Feb 1;16(3):2 (2016).

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Dysli M, Vogel N, Abegg M. Reading performance is not affected by a prism induced increase of horizontal and vertical vergence demand. *Frontiers in Human Neuroscience*. 2014;8.

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Dysli C, Quéllec G, Abegg M, et al. Quantitative analysis of fluorescence lifetime measurements of the macula using the fluorescence lifetime imaging ophthalmoscope in healthy subjects. *Invest Ophthalmol Vis Sci*. 2014;55(4):2106-2113.

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- Abegg MH, Savic N, Ehrenguber MU, McKinney RA, Gähwiler BH. Epileptiform activity in rat hippocampus strengthens excitatory synapses. *J Physiol (Lond)*. 2004;554(Pt 2):439-448.
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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

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Contatto

Swiss Visio Siloah

Worbstrasse 316

3073 Gümligen

T +41 31 958 11 11

siloah@swissvisio.net

www.swissvisio.net

[Scaricare vCard](#)

ONOVIS

Bollwerk 19

3011 Bern

T +41 31 311 15 55

onovis@hin.ch

<https://www.onovis.ch/>

[Scaricare vCard](#)