

Curriculum Vitae

Alexander Friedrich Kuffer, MD, DMD, PhD

Work Address:

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Date of Birth: June 2, 1982

Nationality: Swiss

Education

- PhD in Molecular Life Science (Dr. sc. nat), University of Zurich, Switzerland, 2010–2015
- DMD (Dr. med. dent.), University of Bern, Switzerland, 2007–2010
- MD (Dr. med.), University of Bern, Switzerland, 2001–2007

Postgraduate Medical Training

- 02/2025–Present: Fellow, Neurosurgery, Lakeland Regional Health (Prof. D. Croci)
- 08/2024–01/2025: Attending Neurosurgeon, Schulthess Clinic (Prof. M. Loibl)
- 07/2023–06/2024: Cerebrovascular Fellow, North Shore University Hospital, NY (Prof. A. Dehdashti)
- 01/2021–06/2023: Attending Neurosurgeon, University Hospital Zurich (Prof. L. Regli)
- 04/2020–12/2020: Chief Resident, Neurosurgery, University Hospital Zurich
- 10/2019–03/2020: Resident, Neurosurgery, University Hospital Zurich
- 10/2017–09/2019: Resident, Spine Surgery, Schulthess Clinic Zurich
- 02/2015–09/2017: Resident, Neurosurgery, University Hospital Zurich
- 10/2010–01/2015: Resident, Neuropathology (equivalent 1 year), MD-PhD program

- 12/2007–09/2010: Resident, General Surgery (equivalent 1 year), Emergency Dept., University Hospital Bern

Theses

- PhD (2019): The Role of Axonal Prion Protein in Myelin Maintenance
- DMD (2011): Reproducibility of Sensory Nerve Conduction Studies Using Ultrasound-Guided Needle Positioning
- MD (2007): Influence of BMP-2 Delivery Mode on Osteoconductivity of Implant Surfaces

Licensure & Certification

- USMLE Steps 1, 2 CK, 2 CS, and Step 3
- ECFMG Certified (ID: 0-716-716-6)
- New York State Medical License: #322212
- Florida Medical License: #ME172191
- CAST Certified Fellowship in Cerebrovascular Surgery, Hofstra/Northwell (2024)
- ATLS & ACLS Certified

Academic Appointments & Teaching

- 2023: Teaching Associate in Neurosurgery, Zucker School of Medicine at Hofstra/Northwell
- 2014: Lecturer in Neuropathology, University of Zurich
- 2010–2015: Supervisor of Master's Students (Medicine/Biology), University of Zurich
- 2010–2015: Supervisor of Laboratory Technicians

Honors and Awards

- 2014: Research Grant, University of Zurich (CHF 60,000)
- 2010: MD-PhD Grant, Swiss National Science Foundation (CHF 180,000)
- 2006: Best Presentation Award, SBMS Annual Meeting (CHF 300)
- 2001: Best High School Graduate, Gymnasium Biel

Languages

German (native), English, French

Professional Memberships

- Swiss Medical Association (FMH)
- Swiss Society for Neurosurgery (SGNC)
- American College of Surgeons (Associate Fellow, ID: 3649424)

Military Service

Lieutenant Colonel, Medical Officer

LinkedIn

<https://www.linkedin.com/in/alexanderkuffer/>

Publications

Küffer A, Lakkaraju AK, Mogha A, Petersen SC, Airich K, Doucerain C, Marpakwar R, Bakirci P, Senatore A, Monnard A, Schiavi C, Nuvolone M, Grosshans B, Hornemann S, Bassilana F, Monk KR, Aguzzi A. The prion protein is an agonistic ligand of the G protein-coupled receptor Adgrg6. *Nature*. 2016.

Khaleghi M, Huntoon K, Zandbergen I, White T, Bakker L, Verstegen M, Ghalib L, Pelsma I, Golub D, Kuffer A, Dehdashti AR, Biermasz N, Prevedello DM. Examining the Viability of Endoscopic Endonasal Surgery as an Early Treatment Strategy for Macroprolactinomas: The Significance of the Highest Preoperative Prolactin Level in Predicting Long-Term Surgical Outcomes. *J Neurol Surg B Skull Base*. 2025.

Kuffer AF, Golub D, Quach ET, Katz JM, Patsalides A, Dehdashti AR. Exploring the Influence of Dual Revascularization Techniques on Preoperative Middle Meningeal Artery Collateral Networks in Moyamoya Angiopathy. *J Neurol Surg B Skull Base*. 2025.

Kuffer A, Dehdashti AR. Flow Reversal Treatment of Giant ICA Aneurysm by IMax–MCA Bypass. *J Neurol Surg B Skull Base*. 2025.

Dowlati E, Kuffer AF, Quach ET, Kelly K, Golub D, Dehdashti AR. Brainstem Surface Mapping for Identification of Entry Zone in Cavernous Malformation Resection. *J Neurol Surg B Skull Base*. 2025.

Dowlati E, Golub D, Kashanian A, Hajtovic S, Kuffer AF, Papadimitriou K, Dehdashti AR. Considerations and Complications Associated with Craniotomies in the Sitting Position: A 10-Year Single-Center Retrospective Series. *J Neurol Surg B Skull Base*. 2025.

Kuffer AF, Golub D, Dehdashti AR. Editorial: Clinical experience of open cerebral revascularization (bypass surgery) for the management of ischemic or hemorrhagic stroke. *Front Neurol*. 2024.

Kuffer AF, Golub D, White TG, Fastenberg JH, Patsalides A, Dehdashti AR. Endoscopic Transclival Clipping of a Left Vertebrobasilar Junction Aneurysm: 2-Dimensional Endoscopic Operative Video. *Oper Neurosurg (Hagerstown)*. 2024.

Golub D, Lynch DG, Mehta SH, Donaldson H, Shah KA, White TG, Quach ET, Papadimitriou K, Kuffer AF, Woo HH, Link TW, Patsalides A, Dehdashti AR. The role of surgical disconnection for posterior fossa pial arteriovenous fistulas and dural fistulas with pial supply: an illustrative case series. *Neurosurg Rev*. 2024.

Golub D, Küffer AF, Garrel S, Zandpazandi S, McBriar JD, Modi S, Papadimitriou K, Costantino PD, Sciubba DM, Dehdashti AR. Anatomical determinants of occipitocervical fusion in skull base chordoma resection: a systematic review with illustrative cases. *Neurosurg Focus*. 2024.

Golub D, Kashanian A, Kuffer AF, Pelcher I, Dowlati E, Papadimitriou K, Chaskes MB, Dehdashti AR. Endoscopic Transsphenoidal Resection of a Retroinfundibular Craniopharyngioma With Preservation of the Pituitary Stalk: 2-Dimensional Operative Video. *Oper Neurosurg (Hagerstown)*. 2024.

Golub D, McBriar JD, Mehta SH, Shah HA, Turpin J, White TG, Quach ET, Koo AB, Ferreira C, Küffer AF, Link TW, Patsalides A, Langer DJ, Dehdashti AR. The impact of cerebrovascular steno-occlusive disease subtype on surgical and clinical outcomes after direct STA-MCA bypass surgery. *J Neurosurg*. 2024.

Rauer T, Klingebiel FK, Lühring A, Küffer A, Hofer AS, Ferrari RM, Kupka M, Pape HC. Cranio-cervical and traumatic brain injury patterns—do they differ between electric bicycle, bicycle, and motorcycle-induced accidents? *Eur J Trauma Emerg Surg*. 2024.

Kuffer A, Stauffer A, Colombo E, Dehdashti AR, Regli L. Hologram-Based Craniectomy for Resection of an Extensive En Plaque Meningioma Compared to 3D-Printed Resection Template. *J Neurol Surg B Skull Base*. 2024.

Kuffer A, Wijnmaalen M, van Doormaal T, Amir DR, Regli L. In-Hospital Design and Manufacturing of Polyetheretherketone Peek Cranial Implants. *J Neurol Surg B Skull Base*. 2024.

Küffer A, Regli L. 3D Printing of the Cerebral Vasculature Exceptionally using Freeware: A Quick and Easy Guide Technical Note. *J Vasc Med Surg*. 2022.

Sarnthein J, Staartjes VE, Regli L; Neurosurgery-Registry consortium. Neurosurgery outcomes and complications in a monocentric 7-year patient registry. *Brain Spine*. 2022.

Blümel S, Stadelmann VA, Brioschi M, Küffer A, Leunig M, Rüdiger HA. The trochanteric double contour is a valuable landmark for assessing femoral offset underestimation on standard radiographs: a retrospective study. *BMC Musculoskelet Disord*. 2021.

Velz J, Vasella F, Akeret K, Dias SF, Jehli E, Bozinov O, Regli L, Germans MR, Stienen MN; CORRECT-SCAR study group. Patterns of care: burr-hole cover application for chronic subdural hematoma trepanation. *Neurosurg Focus*. 2019.

Smoll NR, Bozinov O, Regli L, Germans MR; CORRECT-SCAR study group. COVeRs to impRove AesthetiC ouTcome after Surgery for Chronic subdural haemAtoma by buRr hole trepanation (CORRECT-SCAR): protocol of a Swiss single-blinded, randomised controlled trial. *BMJ Open*. 2019.

Bertolini G, Durmaz MA, Ferrari K, Küffer A, Lambert C, Straumann D. Determinants of Motion Sickness in Tilting Trains: Coriolis/Cross-Coupling Stimuli and Tilt Delay. *Front Neurol*. 2017.

Deubelbeiss AN, Trachsel Ch, Bachli EB, Kuffer A, Budka H, Eniseyskiy P, Zimmermann H, Wallace RM, Farley S, Zanoni RG. Imported human rabies in Switzerland, 2012: a diagnostic conundrum. *J Clin Virol*. 2013.

Hunziker EB, Enggist L, Küffer A, Buser D, Liu Y. Osseointegration: the slow delivery of BMP-2 enhances osteoinductivity. *Bone*. 2012.

Scheidegger O, Küffer AF, Kamm CP, Rösler KM. Reproducibility of sensory nerve conduction studies of the sural nerve using ultrasound-guided needle positioning. *Muscle Nerve*. 2011.

Liu Y, Enggist L, Kuffer AF, Buser D, Hunziker EB. The influence of BMP-2 and its mode of delivery on the osteoconductivity of implant surfaces during the early phase of osseointegration. *Biomaterials*. 2007.