



PD Dr med Marc Gallay

FMH Neurosurgery

Languages

DE,FR,IT,EN

Memberships

- FMH
- Swiss Society for Neurosurgery (SGNC)

Education

2002

Baccalauréat: physics, mathematics and chemistry,
Collège Saint-Michel, Fribourg

2008

University of Zürich, Faculty of Medicine, M.D.

2009

Dr. med. (Doctoral dissertation, University of Zürich: Human cerebello- and pallidothalamic tracts:

Stereotactic localization, interindividual variability and MR correlations)

2015

FMH Neurosurgery

2024

Venia legendi (Privat-Dozent)

Work Experience

- | | |
|------------|--|
| since 2024 | Consultant physician, Neurosurgery Department, Geneva University Hospitals (HUG) |
| since 2021 | Lecturer, Université of Fribourg (Department of Medicine), in Neuroscience and Medicine |
| 2020–2024 | Chief medical officer, SoniModul |
| 2015–2020 | Neurosurgeon FMH, SoniModul Center for Ultrasound Functional Neurosurgery, Solothurn |
| 2014–2015 | Resident, Orthopaedics and Spinal Surgery, Swiss Paraplegic Centre, Nottwil (LU) (Dr M. Baur, Dr P. Moulin) |
| 2013–2014 | Resident, Department of Neurosurgery, University Hospital Geneva (Prof. Dr med. K. Schaller) |
| 2009–2012 | Resident in further training, Clinic for Neurosurgery, Cantonal Hospital St. Gallen (Prof. Dr med. G. Hildebrandt) |
| 2008–2009 | Postdoc, Laboratory for Functional Neurosurgery, Neurosurgical Clinic, Zürich (Dr. phil. A. Morel) |
| 2005–2008 | MD-Student, Laboratory for Functional Neurosurgery, Neurosurgical Clinic, Zurich (Dr. phil. A. Morel, Prof. Dr. med. D. Jeanmonod) |

Publications

Gallay MN, Magara AE, Moser D, Kowalski M, Kaeser M, Jeanmonod D. (2023) MR-guided Focused Ultrasound Central Lateral Thalamotomy against chronic and therapy-resistant neuropathic pain, retrospective long-term follow-up analysis of 63 interventions. *J Neurosurg (IF 5.115)*

Magara AE, **Gallay MN**, Moser D, Jeanmonod D. (2022) Complete resolution of chronic cluster headache following Central Lateral Thalamotomy using incisionless MR-guided focused ultrasound with 6 years of follow-up: illustrative case, *Journal of Neurosurgery: Case Lessons*, 4(22)

Gallay MN, Moser D, Haufler F, Jeanmonod D. (2021) Bilateral MRgFUS pallidothalamic tractotomy for Parkinson's disease with one year follow-up. *Front Neurol. (IF 4.086)*

Gallay MN, Moser D, Jeanmonod D. (2020) MR-guided focused ultrasound central lateral thalamotomy for trigeminal neuralgia. Single center experience. *Front Neurol. (Headache and Neurogenic Pain Editor's pick 2021) (IF 4.086)*

Gallay MN, Moser D, Jeanmonod D. (2020) MR guided focused ultrasound cerebellothalamic tractotomy for chronic therapy-resistant essential tremor; anatomical target reappraisal and clinical results. *J Neurosurg (IF 5.115)*

Gallay MN, Moser D, Rossi F, Magara AE, Strasser M, Bühler R, Kowalski M, Pourtehrani P, Dragalina C, Federau C and Jeanmonod D. (2019) : MRgFUS pallidothalamic tractotomy for chronic therapy-resistant Parkinson's disease in 51 consecutive patients: single center experience. *Front Surg. (IF 2.568)*

Gallay MN, Moser D, Federau C, Jeanmonod D. (2019) Anatomical and technical reappraisal of the pallidothalamic tractotomy with the incisionless transcranial MR-guided focused ultrasound. A technical note. *Front Surg. (IF 2.568)*

Gallay MN, Moser D, Federau C, Jeanmonod D. (2019) Radiological and thermal dose correlations in pallidothalamic tractotomy with MRgFUS. *Front Surg (IF 2.568)*

Gallay MN, Moser D, Jeanmonod D. (2018) Safety and accuracy of incisionless transcranial MR-guided focused ultrasound functional neurosurgery: single-center experience with 253 targets in 180 treatments. *J Neurosurg. (IF 5.115)*

Gallay MN, Moser D, Rossi F, Pourtehrani P, Magara AE, Kowalski M, Arnold A, Jeanmonod D. (2016): Incisionless transcranial MR-guided focused ultrasound in essential tremor: cerebellothalamic tractotomy, *J Ther Ultrasound (IF2016: 3.02)*

Morel A, **Gallay MN**, Baechler A, Wyss M, Gallay DS. (2013): The human insula: Architectonic organization and postmortem MRI registration, *Neuroscience*, 16;236:117-35 (IF 3.708)

Gallay DS*, **Gallay MN***, Jeanmonod D, Rouiller EM and Morel A. (2012): The insula of Reil revisited: multiarchitectonic organization in macaque monkeys. *Cereb Cortex*, 22(1):175-190, Impact factor 6.828 (* equally contributed) (IF 5.357)

Gallay MN, Jeanmonod D, Liu J. and Morel A. (2008): Human pallidothalamic and cerebellothalamic tracts: anatomical basis for functional stereotactic neurosurgery. *Brain Struct Funct (IF 3.748)*

Aufenberg C., Sarnthein J., Morel A., Rousson V., **Gallay M.** and Jeanmonod D (2007). A revival of Spiegel's campotomy: long term results of the stereotactic pallidothalamic tractotomy against the parkinsonian thalamocortical dysrhythmia. *Thalamus & Related Systems* 3:121-132

Publications in Swiss journals

Gallay MN, Moser D, Rossi F, Magara AE, Kowalski M, Pourtehrani P, Bühler R, Fravi N, Strasser M, Thalman T, Jeanmonod R, Arnold A, Jeanmonod D (2016): Ultrasons focalisés de haute intensité guidés par IRM (F) /MR-gesteuerter fokussierter Ultraschall (D), *Swiss medical forum* , 16(41):861-865

Gallay MN, Jeanmonod D (2016): Die neue funktionelle Neurochirurgie ohne Schnittführung mittels MR-gesteuerten transkraniellen fokussierten Ultraschall (D), *Neurochirurgie fonctionnelle lésionelle sans incision: renouveau grâce aux ultrasons focalisés*, *ASA/SVV Medinfo, Facetten des medizinisch technischen Fortschrittes* II

Accreditation

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[Medizinisches Zentrum VIVA](#)

Specialties

[Neurosurgery](#)

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