

Name

Gallay, Marc Nicola

PD Dr. med.

Date of Birth

November 01, 1982

Place of Birth

Lausanne (VD), Switzerland

Marital Status

married

3 children

Origin

Essertines-sur-Rolle (VD), Mont-sur-Rolle (VD)

Languages

Italian & French (mother tongues), German, English

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Education and Degrees

06/2002

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

10/2008

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

05/2009

Dr. med. (Doctoral dissertation, University of Zürich: Human cerebello-
and pallidothalamic tracts: Stereotactic localization, interindividual
variability and MR correlations)

01.05.2015

FMH Neurochirurgie

2024

Privat-docent (Habilitation, venia legendi)

Past and Current Positions

01.09.2024

CMO and Founder SIFUS AG (Swiss private Institute of focused
ultrasound surgery, Ostermundigen-Bern

01.07.2024-

Consultant Neurosurgeon, Hôpitaux Universitaires de Genève

01.2021-

Lecturer, Université of Fribourg (Department of Medicine), in
Neuroscience and Medicine

01.07.2020 -31.01.2024

Chief medical officer, SoniModul

01.05.2015 – 01.07.2020 (5y, 2m)

Neurosurgeon FMH, SoniModul Center for Ultrasound Functional
Neurosurgery, Solothurn

01.11.2014-30.04.2015 (6 m)

Assistenzarzt, Orthopädie und Wirbelsäulechirurgie, Schweizer
Paraplegiker Zentrum, Nottwil (LU) (Dr. M. Baur, Dr. P. Moulin)

01/2013-10/2014	Médecin interne en formation, Service de Neurochirurgie, Hôpitaux Universitaires de Genève (Prof. Dr. med. K. Schaller)
01.05.2009-31.12.2012	Assistenzarzt in Weiterbildung, Klinik für Neurochirurgie, Kantonsspital St. Gallen (Prof. Dr. med. G. Hildebrandt)
10/2008-03/2009 (6 m)	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 camptotomy: 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

Review/Commentary

Gallay M, Jeanmonod D (2018). Letter to the Editor. Magnetic resonance-guided focused ultrasound and essential tremor. *Neurosurgical focus*. 2018;45(1):E14

Gautschi OP, **Gallay MN**, Kress TT, Korte WC, Hildebrandt G. (2010). Chronic subdural hematoma –assessment and management [article in German], *Praxis (Bern 1994)*

Tessitore E, Corniola MV, **Gallay M**, Schaller K (2014): Grade I lumbar degenerative spondylolisthesis: do we always need fusion with bilateral screws and rods? *J Neurosurg Sci*. 2014 Jun;58(2 Suppl 1):65-71

Poster presentations

Gallay MN, Moser D, Federau C, Jeanmonod D (2018): MRgFUS in chronic therapy-resistant Parkinson's disease. Anatomical reappraisal and technical strategy, 6th International Symposium on Focused Ultrasound 2018, Reston, Virginia, USA

Gallay DS, **Gallay MN**, Baechler A, Wyss M and Morel A (2011): The human insula: multiarchitectonic organization and correlation with MR imaging, Human brain mapping, Quebec City, Canada

Gallay MN , Gallay D.S., Poveda A. , Rouiller E.M., Jeanmonod D. and Morel A.E. (2009): The Insula of Reil: Multiarchitectonic organization in macaque monkeys and preliminary observations in humans, Annual meeting of the Society for Neuroscience, Chicago, USA

Gallay MN , Poveda A. , Liu J., Rouiller E.M., Jeanmonod D. and Morel A (2009): The insula of Reil: multiarchitectonic organization in non-human primates, Annual meeting of the Swiss Society for Neuroscience, Fribourg, Switzerland

Poveda A., Jeanmonod D., Huser M., Gallay M., Wyss M., Szekely G. & Morel A. (2008): Post-mortem MRI correlations and in vivo co-registration of the Morel atlas of human thalamus and basal ganglia. 6th Forum of European Neuroscience, Geneva

Gallay M., Liu J., Jeanmonod D., and Morel A. (2006): Human cerebello- and pallidothalamic tracts: Stereotactic localization, interindividual variability, and MRI correlations. Annual meeting of the Society for Neuroscience, Atlanta, USA

Morel A., **Gallay M.**, Liu J., Jeanmonod D. (2006). Atlas of the human thalamus and basal ganglia: MRI correlations, anatomical variability and applications. Annual meeting of the Swiss Society for Neuroscience, Basel, Switzerland