

Name	Gallay, Marc Nicola
Date of Birth	November 01, 1982
Place of Birth	Lausanne (VD), Switzerland
Marital Status	married to Delphine Gallay (-Huguenot) 3 children (Eline 13.06.2012, Arthur 12.09.2013, Alois 06.12.2015)
Origin	Essertines-sur-Rolle (VD), Mont-sur-Rolle (VD)
Languages	Italian & French (mother tongues), German, English
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Work address	Center for Ultrasound functional neurosurgery, Leopoldstrasse 1, 4500 Solothurn
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	Doctoral dissertation, University of Zürich: Human cerebello- and pallidothalamic tracts: Stereotactic localization, interindividual variability and MR correlations, (Dr. A. Morel , Prof. D. Jeanmonod), Laboratory for Functional Neurosurgery, Neurosurgical Clinic,Zurich
01.05.2015	FMH Neurochirurgie
Past and Current Positions	
2005-2008	MD-Student, Laboratory for Functional Neurosurgery, Neurosurgical Clinic, Zurich (Dr. phil. A. Morel, Prof. Dr. med. D. Jeanmonod)
10/2008-03/2009 (6 m)	Postdoc, Laboratory for Functional Neurosurgery, Neurosurgical Clinic, Zurich (Dr. phil. A. Morel)
01.05.2009-31.12.2012	Assistenzarzt in Weiterbildung, Klinik für Neurochirurgie, Kantonsspital St.Gallen (Prof. Dr. med. G. Hildebrandt)
01/2013-10/2014	Médecin interne en formation, Service de Neurochirurgie, Hôpitaux Universitaires de Genève (Prof. Dr. med. K. Schaller)

01.11.2014-30.04.2015 (6 m)	Assistenzarzt, Orthopädie und Wirbelsäulechirurgie, Schweizer Paraplegiker Zentrum, Nottwil (LU) (Dr. M. Baur, Dr. P. Moulin)
01.05.2015-	Neurosurgeon FMH, SoniModul Center for Ultrasound Functional Neurosurgery, Solothurn
01.07.2020-	Chief medical officer, SoniModul
2021-	Lecturer, Department of Neuroscience and Movement Sciences, Section of Medicine, University of Fribourg, Fribourg, Switzerland

#### Publications

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

**Gallay MN**, Moser D, Jeanmonod D. (2020) MR-guided focused ultrasound central lateral thalamotomy for trigeminal neuralgia. Single center experience. *Front Neurol*.

**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*

**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*.

**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*.

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

**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*.

**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*

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

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)

**Gallay MN**, Jeanmonod D, Liu J. and Morel A. (2008): Human pallidothalamic and cerebellothalamic tracts: anatomical basis for functional stereotactic neurosurgery. *Brain Struct Funct* , Impact Factor 7.837

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, Thalmann 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 transkranialen fokussierten Ultraschall (D), Neurochirurgie fonctionnelle lésionelle sans incision: renouveau grâce aux ultrasons focalisés, ASA/SVV Medinfo, Facetten des medizinisch technischen Fortschrittes II

#### 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. 6<sup>th</sup> 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

#### Reviews

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

#### Award

Young Investigator Award 2018, Focused Ultrasound Foundation