# Our Team

**Pr. Daniel Jeanmonod, MD**
*Medical direction*

**Dr. Marc Gallay, MD**
*Neurosurgeon FMH*

**David Moser**
*Engineer HES/FHS*

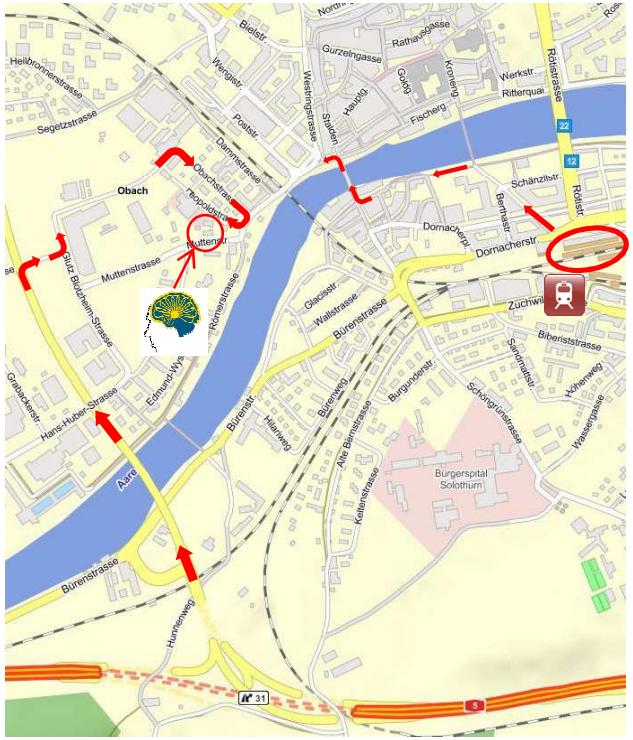
**Franziska Rossi**
*Direction secretary & assistant*

**Danièle Jeanmonod**
*Logistics*

**Tanja Thalmann**
*Nurse*

# How to find us ?

Highway A5
Exit nr. 31 – « Solothurn-West »
Follow: « ObachKlinik »
We are in the « MDZ Obach »




Solothurn Main Station
Then bus: Line « 6 - Sonnenpark »,
stop « Obach », duration: about 3 min
…Or on foot: about 15 min

# SoniModul

Center of Ultrasound
Functional Neurosurgery

***External Collaborations***

| | |
|---|---|
| **Medicine:** | Dr. M. Kowalski & Dr. A.Arnold – Privatklinik Obach |
| **Neurology:** | Dr. A. Magara & Dr. N. Fravi – Bern<br>Dr. R. Bühler – Bürgerspital Solothurn<br>Dr. M. Strasser - Solothurn |
| **Radiology:** | Dr. P. Pourtehrani & colleagues - Rodiag Diagnostic Centers , Solothurn |

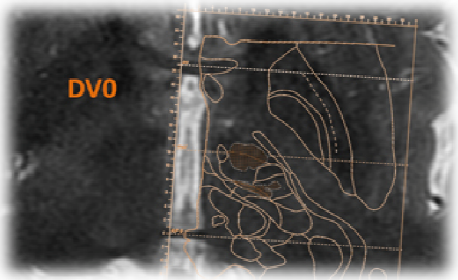
SoniModul | Prof. Dr. med. Daniel Jeanmonod
Leopoldstrasse 1 | CH-4500 Solothurn
☏ +41 32 621 7931 | 🖷 +41 32 621 7933
info@sonimodul.ch

**www.sonimodul.ch**

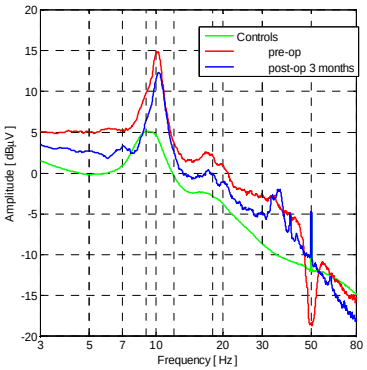
# Functional Brain Disorders …

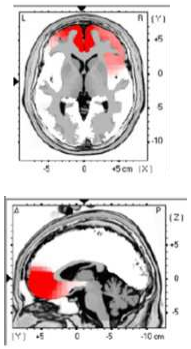
**Chronic functional brain disorders** comprise neurogenic pain, movement disorders (Parkinson's disease, tremor, …), tinnitus, epilepsies and neuropsychiatric disorders (obsessive-compulsive, anxiety, depressive, etc.). Around 8-10% of the human population suffers from one of these disorders, slight to severe in intensity, and 3-5% of them from a severe and therapy-resistant form, which might require an intervention.

An **operative indication** only exists when **chronicity** (more than a year) and **therapy-resistance** (non-response to drugs) have been established. For patients who need a surgical help, we provide a multifaceted approach with clinical, neuroscientific, technological and psychological dimensions.




We base our treatment on a scientifically well established understanding of the physiopathological mechanism of the functional brain disorders to be treated. To assess non-invasively the brain activity of our patients before and after treatment, we use electroencephalography (EEG). Their brain anatomy is examined by high resolution 3-Tesla magnetic resonance (MR) imaging.



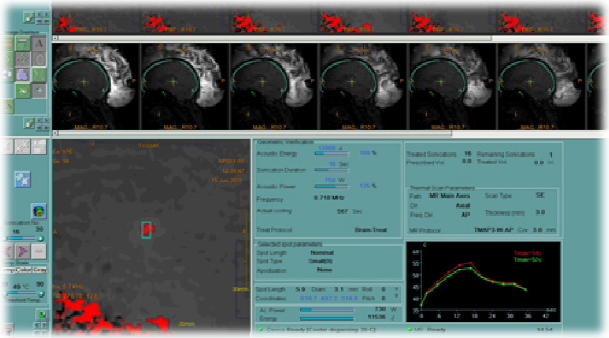



Our **multidisciplinary team** consists of specialists in the fields of neurosurgery, neurology, rheumatology, internal medicine, radiology and psychology. This team work allows an optimal coverage and comprehensive assessment of the patient's disease condition but also of her/his cognition, emotionality, suffering and quality of life.

We apply a **selective retuning and sparing therapeutic concept** which has been developed during the last 20 years. It provides a good up to complete symptom reduction to an average of 60% of the patients.

# … & Ultrasound Functional Neurosurgery

We offer the treatment option of the **non-invasive transcranial MR-guided high-energy focused ultrasound (FUS)** technique. This technology allows high-precision therapeutic heating of the target tissue and a most significant reduction of the interventional risks. This is made possible thanks to 1) the application of the ultrasound energy through skin and bone, i.e. without mechanical penetration of the skull and brain, and 2) the continuous control of the performed therapeutic heating of the chosen target tissue thanks to MR-thermometry .



We integrate in the treatment program the **human psycho-emotional dimension**, which is highly relevant in the field of functional brain disorders.

Neurogenic pain | Movement disorders | Tinnitus | Epilepsies | Neuropsychiatric disorders

More informations:
**www.sonimodul.ch**

Retuning & sparing therapeutic concept | Focused ultrasound | Non-invasive surgery | MR imaging & thermometry