

# CURRICULUM VITAE



<b>Name</b>	JEANMONOD Daniel
<b>Date of Birth</b>	March 13, 1954
<b>Place of Birth</b>	Yverdon, Switzerland
<b>Marital Status</b>	Married, two daughters
<b>Nationality</b>	Swiss
<b>Professional Address</b>	Center for Ultrasound Functional Neurosurgery Leopoldstrasse 1 4500 Solothurn, Switzerland
<b>Faculty Positions</b>	Titular Professor in Neurosurgery Zurich University and Adjunct Assistant Professor in Neurophysiology New York University
<b>E-mail address</b>	<a href="mailto:daniel.jeanmonod@gmail.com">daniel.jeanmonod@gmail.com</a> <a href="mailto:daniel.jeanmonod@sonimodul.ch">daniel.jeanmonod@sonimodul.ch</a>

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## EDUCATION AND DEGREES

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1972	Maturité B, Gymnase cantonal Lausanne,
1978	M.D. (Diplôme fédéral de Médecine) Faculty of Medicine, University of Lausanne
1982	Doctoral Dissertation Faculty of Medicine, University of Lausanne
1989	FMH title in Neurosurgery
1989	Oberarzt for Functional Neurosurgery, Department of Neurosurgery, University Hospital Zurich
1993	Leitender Arzt for Functional Neurosurgery Department of Neurosurgery, University Hospital Zurich
1993	Privat Dozent for Functional Neurosurgery University of Zurich
1998	Adjunct Assistant Professor Department of Physiology and Neuroscience New York University School of Medicine
2001	Titular Professor for Functional Neurosurgery University of Zurich

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## APPOINTMENTS

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Jan. 1979 – 1981	Postgraduate assistantship (Prof. H. Van der Loos) Institute of Anatomy, Faculty of Medicine, Lausanne
1981 - Mar. 1982	Postdoctoral fellowship (Prof. H. Van der Loos) Institute of Anatomy, Faculty of Medicine, Lausanne
Apr. 1982 - Sep. 1983	Assistantship in Neurosurgery (Prof. N. de Tribolet) Department of Neurosurgery, Centre Hospitalier Universitaire Vaudois, Lausanne
Oct. 1983 - Mar. 1985	Chef de Clinique (chief residency) in Neurosurgery (Prof. N. de Tribolet) Department of Neurosurgery Centre Hospitalier Universitaire Vaudois, Lausanne
Apr. 1985 - Mar. 1986	Postgraduate assistantship in general surgery (Dr. Loup) Departement of Surgery, Hôpital Yverdon-les-Bains
Apr. 1986 - Jul. 1987	Postdoctoral honorary clinical assistantship (registrar level) in the National Hospital, Queens Square, London: Neurology (Prof. J. Marshall), Neuroradiology (Dr. B. Kendall) and Stereotaxic and Functional Neurosurgery (Mr. D. Thomas)
Sep. 1987 - Aug. 1988	Médecin résident in the Departments of Neurosurgery (Prof. M. Sindou) and Clinical Neurophysiology (Prof. F. Mauguière) Hôpital Neurologique, Lyon, and Collaborateur Etranger, Unit 94, INSERM, Lyon (Prof. M. Jeannerod)
Sep. 1988 - Nov. 1988	Assistantship in Anaesthesia, Hôpital Yverdon-les-Bains
Jan. 1989 - Oct. 1993	Oberarzt, in charge of the Laboratory for Functional Neurosurgery, Department of Neurosurgery (Directors Prof. M.G. Yasargil, Prof. Y. Yonekawa), University Hospital Zurich
Nov. 1993 – Oct. 2009	Leitender Arzt, Laboratory for Functional Neurosurgery, Department of Neurosurgery (Director Prof. Y. Yonekawa) University Hospital Zurich
Jan. 2010	Opening of the Center for Ultrasound Functional Neurosurgery Solothurn, Switzerland

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## TEACHING EXPERIENCE

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1979 - 1981	Anatomy: Complete dissection course in human anatomy (year 2 medical students).
1979 - 1981	Neuroanatomy: Dissections, demonstrations and lectures on olfaction, gustation and limbic system. Lectures in optional neuroscience course for medical students. Lectures on limbic system to year 2 medical students.
1982 – 1985 and 1989 – 2011	Clinical lectures in neurosurgery and neurology to medical students, functional neurosurgery to year 2, 4 and 6 medical students, and to PhD ZNZ, Human Biology and psychology students.

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## THESIS SUPERVISIONS

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1998	Accuracy of MRI-Guided Stereotactic Technique in Thalamic Functional Neurosurgery. Medical faculty, University of Zurich. Thesis of Dr. Guy Vincent Richard Bourgeois
2001	Effects of Intraoperative Electrical Stimulation in the Thalamus and Subthalamus of Patients with Essential Tremor or Parkinson's Disease. Medical faculty, University of Zurich. Thesis of Dr. Urs Michael Jetzer
2004	Intraoperative Electrical Stimulations in the Human Thalamus in Neurogenic Pain, Parkinsonian or Neuropsychiatric Patients. Medical faculty, University of Zurich. Thesis of Dr. Anna Katharina Jetzer
2005	Pain in Rhythms: Cortical Theta and Beta overactivations in chronic neurogenic pain patients. Medical faculty, University of Zurich. Thesis of Dr. Jair Israel Josef Stern
2008	Strain fields in histological slices of brain tissue determined by synchrotron radiation-based micro computed tomography. Medical faculty, University of Zurich. Thesis of Dr. Marco Germann
2009	Human pallidothalamic and cerebellothalamic tracts: anatomical basis for functional stereotactic neurosurgery. Medical faculty, University of Zurich. Thesis of Dr. Marc Nicola Gallay
2009	A Theoretical Investigation Into Dynamic Neurological Disorders Caused By Thalamocortical Dysrhythmia. Faculty of Arts, University of Zurich. Thesis of Dr. Jörn Henning Proske
2010	On the importance of brain oscillations in functional brain disorders: from mechanism to treatment. ETH Zurich. Thesis of Dr. Morteza Moazami Goudarzi

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## MEMBERSHIPS

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- SSN Swiss Society of Neurosurgery
  - SNS Swiss Society for Neuroscience
  - FENS Federation of European Neuroscience Societies
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## PRIZES AND HONOURS

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- Faculty prize for the thesis: Mouse somatosensory system: neocortical plasticity after early postnatal peripheral lesions, 1982.
  - 3rd Swiss Poster Meeting on basic and clinical neuroscience, Swiss Society for Neuroscience: Prize for the poster: Low-threshold calcium spike bursts in the human thalamus: common physiopathology in neurogenic pain, dyskinesias, epilepsy, tinnitus and psychosis, 1996.
  - Pfizer research prize 1998 in the domain of neurosciences and diseases of the nervous system, title: Low threshold calcium spike bursts in the human thalamus: common physio-pathology for sensory, motor and limbic positive symptoms.
  - Nomination in 2000 as member of the Editorial Board of the international Journal „Thalamus and Related Systems“.
  - Swiss Society for Neuroscience Best Clinical Study Award 2004 to Dr. J. Stern, Annual Meeting, Lausanne, 2004. Increased EEG power slowed alpha rhythm in patients with neurogenic pain. J. Stern, J. Sarthein, A. Morel, C. Aufenberg, D. Jeanmonod.
  - Visiting Professor, University of Virginia, Department of Neurosurgery, October 2011
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## GRANT SUPPORT

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1993 - 1996	Three years grant from the Swiss National Science Foundation (FNSRS: Nr. 31-36330.92): Structure and connections of the human medial thalamus in relation to neurogenic pain.
1996 - 1998	Two years grant from the Swiss National Science Foundation (FNSRS: Nr. 31-47238.96): Anatomical organization of the human basal ganglia in relation to motor disorders and stereotactic neurosurgery.
1998 - 2001 (ext. - 02)	Three years grant from the Swiss National Science Foundation (FNSRS: Nr. 31-54178.98): Functional organization and connections of the pallidum in human and non-human primates.
2002 - 2005 (ext. - 07)	Three years grant from the Swiss National Science Foundation (FNSRS: Nr. 31-68248.02): The human basal ganglia and thalamus: An anatomical framework for functional neurosurgery.
2003 - 2005	Two years grants from the Mach-Gänsslen Foundation and EMDO Foundation: EEG spectral study of neurogenic pain.
2005 - 2007	Two years grant from the Zurich Neuroscience Center: EEG spectral and source analysis in neurogenic pain and Parkinson's disease.
17.03.2015	

2005 – 2009	Four years grant from the National Competence Centre in Research (NCCR CO-ME): Image-guided Neurosurgery.
2006 - 2007	Two years grant from the Swiss National Science Foundation (FNSRS: Nr. 3200BO-110028): EEG spectral and source analysis in neurogenic pain and Parkinson's disease.
2007 – 2012	Three years grant from the Swiss National Science Foundation (FNSRS: Nr. 32--118175/1): Comparative multiarchitectonic study of the insular cortex in human and monkey: anatomical basis for neuroimaging and connectional studies.
2007 - 2010	Three years grant from the Zurich Center for Integrative Human Physiology: Thalamocortical interaction in brain state regulation during normal development and in epilepsy.
2009	Award from the Focused Ultrasound Surgery Foundation: Treatment of chronic functional brain disorders using MRgFUS: a pilot study.

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## PUBLICATIONS

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### International Journals with Peer Reviews

Jeanmonod D., Rice F.L., Van der Loos H.: Mouse somatosensory cortex: development of the alterations in the barrelfield which are caused by injury to the vibrissal follicles. *Neuroscience Letters* **6**:151-156, 1977.

Regli F., Jeanmonod D.: Ursachen, Spontanverlauf und Prognose der Hirnblutungen. *Aktuelle Neurologie*: 155-170, 1979.

Jeanmonod D., Rice F.L., Van der Loos H.: Mouse somatosensory cortex: alterations in the barrelfield following receptor injury at different early postnatal ages. *Neuroscience* **6**:1503-1535, 1981.

Cruz M.C., Jeanmonod D., Meier K., Van der Loos H.: A silver and gold technique for axons and axon bundles in formalin-fixed central and peripheral nervous tissue. *Journal of Neuroscience Methods* **10**:1-8, 1984.

Jeanmonod D., Sindou M., Magnin M., Boudet M.: Intra-operative unit recordings in the human dorsal horn with a simplified floating microelectrode. *Electroencephalography and Clinical Neurophysiology* **2**:450-454, 1989.

Jeanmonod D., Sindou M., Mauguière F.: Three transverse dipolar generators in the human cervical and lumbo-sacral dorsal horn: evidence from direct intra-operative recordings on the spinal cord surface. *Electroencephalography and Clinical Neurophysiology* **74**:236-240, 1989.

Jeanmonod D., Thomas D.G.T.: Application of CT-directed stereotaxy in the determination of functional neurosurgical targets in the diencephalon and cerebral hemisphere. *British Journal of Neurosurgery* **3**:337-342, 1989.

- Sindou M., Jeanmonod D.: Microsurgical DREZ-otomy for the treatment of spasticity and pain in the lower limbs.  
Neurosurgery **24**:655-670, 1989.
- Sindou M., Jeanmonod D., Mertens P.: Microsurgical DREZ-tomy (MDT) for treatment of chronic pain.  
Modern Neurosurgery **2**:319-328, 1989.
- Sindou M., Mertens P., Jeanmonod D.: Microsurgical ablative procedures in the peripheral nerves and the dorsal root entry zone for relief of focalized spasticity in the limbs.  
Stereotactic and Functional Neurosurgery **54+55**:140-146, 1990.
- Sindou M., Jeanmonod D., Mertens P.: Ablative neurosurgical procedures for the treatment of chronic pain.  
Neurophysiologie Clinique **20**:399-423, 1990.
- Jeanmonod D., Sindou M., Mauguière F.: Intra-operative electrophysiological recordings during microsurgical DREZ-tomies in man.  
Stereotactic and Functional Neurosurgery **54+55**:80-85, 1990.
- Jeanmonod D., Sindou M.: Somatosensory functions following dorsal root entry zone lesions in patients with neurogenic pain or spasticity.  
Journal of Neurosurgery **74**: 916-932, 1991.
- Jeanmonod D., Sindou M., Mauguière F.: The human cervical and lumbo-sacral evoked electrospinogram. Data from intra-operative spinal cord surface recordings.  
Electroencephalography and Clinical Neurophysiology **80**:477-489, 1991.
- Jeanmonod D., Magnin M., and Morel A.: Thalamus and neurogenic pain: physiological, anatomical and clinical data.  
NeuroReport **4**:475-478, 1993.
- Jeanmonod D., Magnin M., Morel A.: Low-threshold calcium spike bursts in the human thalamus: common physiopathology for sensory, motor and limbic positive symptoms.  
Brain **119**:363-375, 1996.
- Morel A., Magnin M. and Jeanmonod D.: Multiarchitectonic and stereotactic atlas of the human thalamus.  
Journal of Comparative Neurology **387**: 588-630, 1997.
- Schurch B., Rodic B., Jeanmonod D.: Posterior sacral rhizotomy and intradural anterior sacral root stimulation for treatment of the spastic bladder in spinal cord injured patients.  
Journal of Urology **157**:610-614, 1997.
- Huther G., Dörfel Y., Van der Loos H., Jeanmonod D.: Microanatomic and vascular aspects of the temporo-mesial region.  
Neurosurgery **43**:1118-11136, 1998.
- Schurch B., Knapp B.A., Jeanmonod D., Rodic B., Rossier A.B.: Does sacral posterior rhizotomy suppress autonomic hyperreflexia in patients with spinal cord injury?  
British Journal of Urology **81**:73-82, 1998.
- Llinas R.R., Ribary U., Jeanmonod D., Kronberg E., Mitra P.P.: Thalamocortical dysrhythmia: A neurological and neuropsychiatric syndrome characterized by magnetoencephalography.  
Proceedings of the National Academy of Sciences of USA **96**:15222-15227, 1999.
- Bourgeois G., Magnin M., Morel A., Sartoretti S., Wichmann T., Tuncdogan E., Meier D., Jeanmonod D.: Accuracy of MRI guided stereotactic thalamic functional neurosurgery. *Neuroradiology* **41**:636-645, 1999.

- Roth C., Jeanmonod D., Magnin M., Morel A., Achermann P.: Effects of medial thalamotomy and pallido-thalamic tractotomy on sleep and waking EEG in pain and Parkinsonian patients. *Clinical Neurophysiology* **111**:1266-1275, 2000.
- Magnin M., Morel A., Jeanmonod D.: Single unit analysis of the pallidum, thalamus and sub-thalamic nucleus in Parkinsonian patients. *Neuroscience* **96**:549-564, 2000.
- Niemann K., Mennicken V., Jeanmonod D., Morel A.: The Morel stereotactic atlas of the human thalamus: atlas-to-MR registration of internally consistent canonical model. *Neuroimage* **12**:601-616, 2000.
- Jeanmonod D., Magnin M., Morel A., Siegemund M.: Surgical control of the human thalamocortical dysrhythmia: I. Central lateral thalamotomy in neurogenic pain. *Thalamus & Related Systems* **1**:71-79, 2001.
- Jeanmonod D., Magnin M., Morel A., Siegemund M., Cancro R., Lanz M., Llinas R., Ribary U., Kronberg E., Schulman J., Zonenshayn M.: Thalamocortical dysrhythmia II. Clinical and surgical aspects. *Thalamus & Related Systems* **1**:245-254, 2001.
- Lehmann D., Faber P.L., Achermann P., Jeanmonod D., Gianotti L.R.R., Pizzagalli D.: Brain sources of EEG gamma frequency during volitionally meditation-induced, altered states of consciousness, and experience of the self. *Psychiatry Research: Neuroimaging Section* **108**:111-121, 2001.
- Llinas R., Ribary U., Jeanmonod D., Cancro R., Kronberg E., Schulman J., Zonenshayn M., Magnin M., Morel A., Siegemund M.: Thalamocortical dysrhythmia I, functional and imaging aspects. *Thalamus & Related Systems* **1**:237-244, 2001.
- Magnin M., Jeanmonod D., Morel A., Siegemund M.: Surgical control of the human thalamo-cortical dysrhythmia: II Pallidothalamic tractotomy in Parkinson's disease. *Thalamus & Related Systems* **1**:81-89, 2001.
- Magnin M., Jetzer U., Morel A., Jeanmonod D.: Microelectrode recording and macrostimulation in thalamic and subthalamic MRI guided stereotactic surgery. *Neurophysiologie Clinique* **31**:230-238, 2001.
- Morel A., Loup F., Magnin M., Jeanmonod D.: Neurochemical organization of the human basal ganglia: Anatomic-functional territories defined by the distributions of calcium-binding proteins and SMI-32. *Journal of Comparative Neurology*, volume **443**:86-103, 2002
- Jeanmonod D., Schulman Y., Ramirez R., Cancro R., Lanz M., Morel A., Magnin M., Siegemund M., Kronberg E., Ribary U., Llinas R.: Neuropsychiatric thalamocortical dysrhythmia: surgical implications. *Thalamus & Related Systems*, volume **2**:103-113, 2003
- Sarnthein J., Morel A., Von Stein A., Jeanmonod D.: Thalamic theta field potentials and EEG: high thalamocortical coherence in patients with neurogenic pain, epilepsy and movement disorders. *Thalamus & Related Systems*, volume **2**:231-238, 2003
- Morel A., Liu J., Wannier T., Jeanmonod D., Rouiller E.M.: Divergence and convergence of thalamocortical projections to premotor and supplementary motor cortex: A multiple tracing study in macaque monkey. *European Journal of Neuroscience*, volume **21**:1007-1029, 2005
- Jeanmonod D., Sarnthein J., Magnin M., Stern J., Lebzelter C., Aufenberg C., Morel A.: Chronic neurogenic pain: thalamocortical dysrhythmic mechanisms and their surgical treatment. *Thalamus & Related Systems*, volume **3**:63-70, 2005

- Sarnthein J., Morel A., von Stein A., Jeanmonod D.: Thalamocortical theta coherence in neurological patients at rest and during a working memory task.  
International Journal of Psychophysiology, volume **57**:87-96, 2005
- Magnin M., Morel A., Jeanmonod D.: Vers une théorie unifiée des symptômes positifs. Toward a unified theory of positive symptoms.  
Neurophysiologie Clinique/Clinical Neurophysiology, volume **35**:154-161, 2005
- Aufenberg C., Sarnthein J., Morel A., Rousson V., Gallay M., Jeanmonod D.: A revival of Spiegel's campotomy: long term results of the stereotactic pallidothalamic tractotomy against the parkinsonian thalamocortical dysrhythmia.  
Thalamus & Related Systems, volume **3(2)**: 121-132, 2005
- Stern J., Jeanmonod D., Sarnthein J.: Persistent EEG overactivation in the cortical pain matrix of neurogenic pain patients.  
NeuroImage, volume **31**:721-731, 2006
- Sarnthein J., Stern J., Aufenberg C., Rousson V., Jeanmonod D.: Increased EEG power and slowed dominant frequency in patients with neurogenic pain.  
Brain, volume **129**:55-64, 2006
- Müller B., Germann M., Jeanmonod D., Morel A.: Three-dimensional assessment of brain tissue morphology.  
Proceedings of SPIE, volume **6318**:1-8, 2006.
- Sarnthein J., Jeanmonod D.: High thalamocortical theta coherence in patients with Parkinson's disease.  
Journal of Neurosciences, volume **27**:124-131, 2007
- Sarnthein J., Jeanmonod D.: High thalamocortical theta coherence in patients with neurogenic pain.  
NeuroImage, volume **39**: 1910-1917, 2008.
- Sarnthein J., Jeanmonod D.: Measuring the thalamocortical loop in patients with neurogenic pain.  
Chaos and complexity letters, volume **2**:397-411, 2007.
- Gallay M.N., Jeanmonod D., Liu J., Morel A.: Human pallidothalamic and cerebellothalamic tracts: anatomical basis for functional stereotactic neurosurgery.  
Brain Structure & Function, volume **212**: 443-463, 2008.
- Michels L., Moazami-Goudarzi M., Jeanmonod D., Sarnthein J.: EEG alpha distinguishes between cuneal and precuneal activation in working memory.  
NeuroImage, volume **40**: 1296-1310, 2008.
- Germann M., Morel A., Beckmann F., Andronache A., Jeanmonod D., Müller B.: Strain fields in histological slices of brain tissue determined by synchrotron radiation-based micro computed tomography.  
Journal of Neuroscience Methods, volume **170**: 149-155, 2008.
- Moazami-Goudarzi M., Sarnthein J., Michels L., Moukhtieva R., Jeanmonod D.: Enhanced frontal low and high frequency power and synchronization in the resting EEG of parkinsonian patients.  
NeuroImage, volume **41**: 985-997, 2008.
- Krauth A., Blanc R., Poveda A., Jeanmonod D., Morel A., Szekely G.: A mean three-dimensional atlas of the human thalamus: Generation from multiple histological data.  
NeuroImage, volume **49**: 2053-2062, 2009.
- Jetzer A.K., Morel A., Magnin M., Jeanmonod D.: Cross-modal plasticity in the human thalamus: evidence from intraoperative macrostimulations.  
Neuroscience, volume **164**: 1867-1875, 2009.



- Martin E., Jeanmonod D., Morel A., Zadicario E., Werner B.: High intensity focused ultrasound for non-invasive functional neurosurgery. *Annals of Neurology*, volume **66**: 858-861, 2009.
- Moazami-Goudarzi M., Michels L., Weisz N., Jeanmonod D.: Temporo-insular enhancement of EEG low and high frequencies in patients with chronic tinnitus. QEEG study of chronic tinnitus patients. *BMC Neuroscience*, volume **11**: 40, 2010.
- Michels L., Bucher K., Lüchinger R., Klaver P., Martin E., Jeanmonod D., Brandeis D.: Simultaneous EEG-fMRI during a working memory task: modulations in low and high frequency bands. *PLoS one*, volume **5 (4)**, 2010.
- Michels L., Bucher K., Brem S., Halder P., Lüchinger R., Liechti M., Martin E., Jeanmonod D., Kröll J., Brandeis D.: Does greater low frequency EEG activity in normal immaturity and in children with epilepsy arise in the same neuronal network? *Brain Topography*, 2010.
- Proske J.H., Jeanmonod D., Verschure P.F.M.J.: A computational model of thalamocortical dysrhythmia. *European Journal of Neuroscience*, pp. 1-10, 2011.
- Gallay D.S., Gallay M.N., Jeanmonod D., Rouiller E.M., Morel A.: The insula of Reil revisited: multiarchitectonic organization in macaque monkeys. *Cerebral Cortex*, 2011.
- Michels L., Moazami-Goudarzi M., Jeanmonod D.: Correlation between EEG and surgical outcome in chronic neuropathic pain: surgical effects and treatment resistance. *Brain Imaging and Behavior*, volume **5**: 329-348, 2011.
- Jeanmonod D., Werner B., Morel A., Michels L., Zadicario E., Schiff G., Martin E.: Transcranial MR-guided focused ultrasound: non-invasive central lateral thalamotomy against chronic neuropathic pain. *Neurosurgical Focus*, volume **32 (1)**: E1, 2012.
- Moser D., Zadicario E., Schiff G., Jeanmonod D.: Measurement of Targeting Accuracy in Focused Ultrasound Functional Neurosurgery: a technical note. *Neurosurgical Focus*, volume **32 (1)** : E2, 2012.
- Schmidt S., Naranjo J.R., Brenneisen C., Gundlach J., Schultz C., Kaube H., Hinterberger T., Jeanmonod D.: Pain ratings, psychological functioning and quantitative EEG study of a sample of chronic back pain patients. *PLoS ONE*, 2012.
- Pirrotta R., Jeanmonod D., McAleese S., Aufenberg C., Opwis K., Jenewein J., Martin-Soelch C.: Cognitive functioning, emotional processing, mood and personality variables before and after stereotactic surgery: a study of eight patients with chronic neuropathic pain. *Neurosurgery*, volume **73 (1)**: 121 - 128
- Moser D., Zadicario E., Schiff G., Jeanmonod D.: MR-guided focused ultrasound technique in functional neurosurgery: targeting accuracy. *Journal of Therapeutic Ultrasound*, volume **1**, 2013.
- Magara A., Bühler R., Moser D., Kowalski M., Pourtehrani P., Jeanmonod D.: First experience with MR-guided focused ultrasound in the treatment of Parkinson's disease. *Journal of Therapeutic Ultrasound*, volume **2**: 11, 2014
- Ledermann K., Jeanmonod D., McAlees S., Aufenberg C., Opwis K., Martin-Soelch C.: Effects of cerebellothalamic tractotomy on cognitive and emotional functioning in essential tremor: a preliminary study in 5 essential tremor patients. *Stereotactic and Functional Neurosurgery*, volume **93**: 127 – 132, 2015

## **Book Chapters**

Regli F., Jeanmonod D.: Initial clinical course and prognostic factors in intracerebral haematomas. In: Spontaneous intracerebral Haematomas, Advances in Diagnosis and Therapy. Pia H.W., Langmaid C., Zierski J. (eds.). Springer: Wien pp. 233-240, 1980

Jeanmonod D., Sindou M., Mauguière F.: Intra-operative spinal cord evoked potentials during cervical and lumbo-sacral microsurgical DREZ-tomy (MDT) for chronic pain and spasticity (preliminary data). *Acta Neurochirurgica Suppl.* **46**:58-61, 1989

Sindou M., Jeanmonod D.: Structural approach to management of pain. In: Recent Achievements in Restorative Neurology, Vol. 3, Altered Sensation and Pain, Dimitrijevic M.R. et al. (eds.). Karger, Basel, pp. 64-78, 1990

Sindou M., Mertens P., and Jeanmonod D.: DREZ-operations for pain treatment: results and sideeffects. In: Treatment of Chronic Pain: Possibilities, Limitations and Long Term Follow-up, Mumenthaler M. et al. (eds.). Harwood: London, pp. 240-246, 1990

Jeanmonod D.: Neuroanatomical bases of spasticity. In: Neurosurgery of Spasticity, Sindou M. et al. (eds.). Springer: Wien, pp. 3-14, 1991

Sindou M., Jeanmonod D.: Surgery in the dorsal root entry zone: microsurgical DREZ-tomy (MDT) for the treatment of spasticity. In: Neurosurgery of Spasticity, Sindou M. et al. (eds.). Springer: Wien, pp. 165-182, 1991

Jeanmonod D., Magnin M., Morel A.: A thalamic concept of neurogenic pain. Proceedings of the 7th World Congress on Pain. Progress in Pain Research and Management, eds. G.F. Gebhart, D.L. Hammond, and T.S. Jensen. IASP Press: Seattle. Vol. **2**, 1994

Niemann K., Noelchen D., Jeanmonod D. and Morel A.: A new stereotaxic multiarchitectonic atlas of the human thalamus in a 3D MRI navigation system. In: Bildverarbeitung für die Medizin. Algorithmen, Systeme, Anwendungen. T. Lehmann, V. Metzler, K. Spitzer, T. Tolxdorff (eds.). Springer-Verlag (Berlin), pp. 287-291, 1998

Morel A., Magnin M., Jeanmonod D.: Efferent connections of the human striatum and pallidum: A Nauta degeneration study. In: Kultas-Illinsky K, Illinsky IA, editors. Basal Ganglia and Thalamus in Health and Movement Disorders. New York: Kluwer Academic Plenum Press, pp. 61-67, 2001

Jeanmonod D., Magnin M., Morel A., Siegemund M.: Commentary to stereotactic medial thalamotomy for chronic pain: Is it an effective procedure? In: Surgical Management of Pain, chapter 63. Ed. K. Burchiel. Thieme New York, pp. 808-811, 2002

Ribary U., Llinas R., Jeanmonod D., Kronberg E., Sauvé K., Ramirez R.R., Schulman Y.Y., Hochenstein C., Van Marle H.J.F.: Normal and dysrhythmic thalamocortical networks in the auditory, somatosensory and visual modality and their relation to neuropsychiatric syndromes. In: Biomag 2002, VDE-Verlag Berlin, pp. 1-3, 2002

Jeanmonod D., Magnin M., Morel A.: Medial thalamotomy, a commentary. In: Surgical Management of Pain, chapter 62. Ed. K. Burchiel. Thieme New York, pp 802-804, 2002

Jeanmonod D., Schulman Y., Ramirez R., Cancro R., Lanz M., Morel A., Magnin M., Siegemund M., Kronberg E., Ribary U., Llinas R.: Neuropsychiatric thalamocortical dysrhythmia: surgical implications. In: Neurosurgical Clinics of North America, volume **14**:251-265, 2003

Jeanmonod D., Sarnthein J., Stern J., Magnin M., Aufenberg C., Morel A.: Thalamotomy for human pain relief. In: Encyclopedic Reference of Pain, eds. R.F. Schmidt and W.D. Willis, 2006.

Stern J., Aufenberg C., Jeanmonod D.: Der Widerhall von Nervenschädigungen und Schuldgefühl im EEG: Eine neurochirurgische Fallstudie zu Gehirn-Oszillationen bei chronischen Schmerzen. In: Schmerz: Perspektiven auf eine menschliche Grunderfahrung. Ed. G. Schönbacher, Chronos und Collegium Helveticum, Zürich, pp. 131-158, 2007.

Jeanmonod D.: Consciousness: a Riddle and a Key in Neuroscience and Spirituality. In: Proceedings of the International Meeting on Neuroscience, Consciousness and Spirituality, Freiburg in Breisgau. S. Schmidt et al. (eds.). Springer, 2011.

Jeanmonod D., Morel A.: The Central Lateral Thalamotomy for Neuropathic Pain. In: Textbook of Stereotactic and Functional Neurosurgery. Lozano A.M., Gildenberg P.L. and Tasker R.R. (eds.). Springer-Verlag: Berlin, Chapter 123, pp. 2081-2096, 2009.

### **Swiss Journals**

Jeanmonod D., Magnin M., Morel A.: Chronic neurogenic pain and the medial thalamotomy. Praxis **83**:702-707, 1994

Jeanmonod D.: Synchrotronstrahlenchirurgie in der funktionellen Neurochirurgie. Tagungsberichte der wissenschaftlichen Tagung der Schweizerischen Gesellschaft für Strahlenbiologie und medizinische Physik. Verlag Max Huber, W. Burkard, C. Michel und P.M. Schweizer (eds.), pp.149-151, 1995

Jeanmonod D., Magnin M., Morel A.: Gemeinsame thalamische Pathophysiologie für sensorische, motorische und limbische positive Symptome beim Menschen. Vierteljahrsschrift der Naturforschenden Gesellschaft in Zürich, **141**:173-181, 1996

Jeanmonod D., Magnin M., Morel A.: Therapieresistente Parkinson'sche Krankheit. Neuro-chirurgische Behandlungsmöglichkeiten. Der informierte Arzt - Gazette Medicale **18**:761-767, 1997

Jeanmonod D., Magnin M., Morel A.: Mechanismes et traitements des douleurs neurogènes chroniques. Infokara **52**:25-28, 1998

Jeanmonod D., Magnin M., Morel A.: Mechanismes et traitements des douleurs neurogènes chroniques. Schweiz. Arbeitsgemeinschaft für Rehabilitation, SUVA Care, Rehabilitationsschmerz, 23-24, 1999