

List of Publications:

Jörn Peuser*, Abderraouf Belhaj-Saif*, Adjia Hamadjida, **Eric Schmidlin**, Anne-Dominique Gindrat, Andreas Charles Völker, Pavel Zakahrov, Henri-Marcel Hoogewoud, Eric M. Rouiller & Frank Scheffold “Follow-up of cortical function and structure after lesion with laser speckle imaging (LSI) and magnetic resonance imaging (MRI) in non-human primates.” **Submitted in Journal of Optical Medicine**

Eric Schmidlin*, Christophe Jouffrais*, Patrick Freund, Patrizia Wannier, Marie-Laure Beaud, Eric M. Rouiller and Thierry Wannier: “A case of polymicrogyria in macaque monkey: impact on anatomy and function of the motor system” **BMC Neurosciences 2009** vol. 10, p 155 [\[Abstract\]](#)

* **The first two authors contributed equally to the study**

Patrick Freund*, **Eric Schmidlin***, Thierry Wannier*, Jocelyne Bloch, Anis Mir, Martin E. Schwab and Eric M. Rouiller: “Anti-Nogo-A antibody treatment promotes recovery of manual dexterity after unilateral cervical lesion in adult primates--re-examination and extension of behavioral data” **Eur. J. Neurosci. 2009** vol 29, 5pp 983-996. [\[Abstract\]](#)

Schmidlin E, Brochier T, Maier MA, Kirkwood PA & Lemon RN „Pronounced reduction of digit motor responses from macaque ventral premotor cortex after reversible inactivation of the primary motor cortex hand area” **J. Neuroscience 2008** vol. 28, pp5772-5783 [\[Abstract\]](#)

P. Wannier-Morino*, **E. Schmidlin***, P. Freund, A. Belhaj-Saif, J. Bloch, A. Mir, M.E.Schwab, E.M. Rouiller and T. Wannier:” Fate of rubrospinal neurons after unilateral section of the cervical spinal cord in adult macaque monkeys: effects of an antibody treatment neutralizing Nogo-A.” **Brain Research 2008** vol 1217 p 96-109 [\[Abstract\]](#)

***The first two authors contributed equally to the study**

Beaud Marie-Laure*, **Schmidlin Eric***, Thierry Wannier*, Patrick Freund, Jocelyne Bloch, Anis Mir, Martin E Schwab and Eric M Rouiller: “Anti-Nogo-A antibody treatment does not prevent cell body shrinkage in the motor cortex in adult monkeys subjected to unilateral cervical cord lesion” **BMC Neurosci. 2008**, vol. 9:5

*: **Authors contributed equally to this study** [\[Abstract\]](#)

Patrick Freund*, Thierry Wannier*, **Eric Schmidlin***, Jocelyne Bloch, Anis Mir, Martin E. Schwab and Eric M. Rouiller: “Anti-Nogo-A treatment enhances sprouting of corticospinal (CS) axons rostral to an unilateral cervical spinal cord lesion in adult macaque monkey” **J. of Comp. Neurol. 2007**, vol 502, 4, 644-659 [\[Abstract\]](#)

*: **Authors contributed equally to this study**

Patrick Freund*, **Eric Schmidlin***, Thierry Wannier*, Jocelyne Bloch, Anis Mir, Martin E. Schwab and Eric M. Rouiller: “Anti-Nogo-A specific antibody treatment enhances sprouting and functional recovery after cervical lesion in adult primates” **Nature medicine 2006**, vol. 12, issue 7, page 790-792. [\[Abstract\]](#)

*: Authors contributed equally to this study.

Wannier T, **Schmidlin E**, Bloch J, Rouiller E M: “A unilateral section of the corticospinal tract at cervical level in primate does not lead to measurable cell loss in motor cortex.” **J. of Neurotrauma 2005** vol. 22, issue 6, page 703-717 [\[Abstract\]](#)

Rouiller E.M., Wannier T., **Schmidlin E.**, Liu Y. :”Reprogramming the motor cortex for functional recovery after neonatal or adult unilateral lesion of the corticospinal system in the macaque monkey.” Chapter in “Reprogramming the cerebral cortex” in **Oxford University Press**: S. Lomber, J. Eggermont (Eds.)

Schmidlin,E.; Wannier,T.; Bloch,J.; Belhaj-Saif,A.; Wyss,A.F.; Rouiller,E.M. “Reduction of the hand representation in the ipsilateral primary motor cortex following unilateral section of the corticospinal tract at cervical level in monkeys” **BMC.Neurosci.** **2005** vol. 6, page 56
[\[Abstract\]](#)

Schmidlin E, Wannier T, Bloch J, Rouiller E M: “Progressive plastic changes in the hand representation of the primary motor cortex parallels incomplete recovery from a unilateral section of the corticospinal tract at cervical level in monkeys” **Brain Research** **2004**, vol. 1017, issue 1-2, page 172-183 [\[Abstract\]](#)

List of Published Abstract

Schmidlin E, Wannier T, Bloch J, Rouiller E M: “Reorganisation of the primary motor cortex (M1) hand region revealed by intracortical microstimulation (ICMS) after a unilateral section of the dorsolateral funiculus in Macaque monkey.” Swiss Society for Neurosciences Meeting **(2000)**

Wannier T, Schmidlin E, , Bloch J, Rouiller E M: “A behavioural and electrophysiological assessment of impairment and incomplete recovery of manual dexterity in a monkey subjected to unilateral section of the dorsolateral funiculus” Functional recovery after spinal cord injury meeting, Ascona **(2001)**

Schmidlin E, Wannier T, Bloch J, Rouiller E M: “Behavioural consequences of a cervical spinal cord hemisection on the manual dexterity in macaque monkeys” Swiss Society for Neurosciences Meeting **(2002)**

Schmidlin E, Wannier T, Wyss, A, Bloch J and Rouiller E M: “In primate, an incomplete spinal cord injury (SCI) induces cell disappearance in supra-spinal structures projecting to the spinal cord. Third Forum of European Neurosciences in Paris, FENS **(2002)**

Jouffrais C., Schmidlin E., Rouiller E. M.: „Single unit activity related to bimanual coordination in the dorsal premotor (PMd) and primary motor (M1) cortices in rhesus monkeys“ Third Forum of European Neurosciences in Paris, FENS **(2002)**

Schmidlin E, Wannier T, Wyss, A, Bloch J and Rouiller E M:”In primate, a spinal cord hemisection induces cell disappearance in supra-spinal structures projecting to the spinal cord.” Swiss Society for Neurosciences Meeting **(2003)**

Schmidlin E, Wannier T, Bloch J, Schwab M E, Mir A, Rouiller E M: “Functional recovery in macaque monkeys subjected to unilateral spinal lesion effect of anti-Nogo treatment” Society For Neurosciences Meeting in New Orleans **(2003)**

E. Schmidlin; T. Brochier; G. Cerri; H. Shimazu; M. Maier; S. Shepherd; R.N. Lemon “Cortico-cortical interactions in motor cortex of macaque monkeys investigated with chronically implanted microarrays: effects of ICMS and transient inactivation with muscimol.” Society for Neurosciences Meeting in Washington (2005)

E. Schmidlin, T. Brochier, R. N. Lemon “Cortico-cortical interactions in macaque motor cortex investigated with intracortical microstimulation (ICMS) and transient inactivation with muscimol”. Santorini (2006)

E. Schmidlin, T. Brochier, R. N. Lemon “Cortico-cortical interactions in macaque motor cortex investigated with intracortical microstimulation (ICMS) and transient inactivation with muscimol.” Society for Neurosciences Meeting in Atlanta (2006)

E. Schmidlin, P. Freund, M.-L. Beaud, P. Wannier-Morino, E. Rouiller and T. Wannier “Histological and functional assessment of the motor system in a non-human primate affected by Polymicrogyria” FENS Meeting Geneva (2008)