

## SCIENTIFIC PUBLICATIONS OF PROFESSOR ERIC ROUILLER

**165\*** Barra B.\*, Conti S.\*, Perich M.G., Zhuang K., Schiavone G., Fallegger F., Galan K., James N.D., Barraud Q., Delacombaz M., Kaeser M., **Rouiller E.M.**, Milekovic T., Lacour S.P., Bloch J., Courtine G. and Capogrosso M. (2022) Epidural electrical stimulation of the cervical dorsal roots restores upper limb control in paralyzed monkeys. *Nature Neuroscience* (in revision).

**164\*** Losanno E., Badi M., Wurth S., Borgognon S., Courtine G., Capogrosso M., **Rouiller E.M.**, Micera S. (2021) Bayesian optimization of peripheral intraneural stimulation to evoke functional distal limbs movements in rats and macaques. *J. Neural Engineering* (**in press**).

**163\*** Badi M\*, Wurth\* S., Scarpato I., Roussinova E., Losanno E., Bogaard A., Delacombaz M., Borgognon S., C?vanc?ara P., Fallegger F., Su D.K., Schmidlin E., Courtine G., Bloch J., Lacour S.P., Stieglitz T., **Rouiller E.M.**, Capogrosso M., S. Micera S. (2021) Intrafascicular peripheral nerve stimulation produces fine functional hand movements in primates. *Science Translational Medicine* 2021 Oct 27;13(617) [doi: 10.1126/scitranslmed.abg6463](https://doi.org/10.1126/scitranslmed.abg6463)

**162\*** Savidan J., Beaud M.L., **Rouiller E.M.** (2020) Cutaneous Inputs to Dorsal Column Nuclei in Adult Macaque Monkeys Subjected to Unilateral Lesion of the Primary Motor Cortex or of the Cervical Spinal Cord and Treatments Promoting Axonal Growth. *Neuroscience Insights* 15: 1-13. [doi: 10.1177/2633105520973991](https://doi.org/10.1177/2633105520973991) [[pdf](#)]

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**159\*** Beaud M.L., **Rouiller E.M.**, Bloch J., Mir A., Schwab M.E., Schmidlin E. (2019) Combined with anti-Nogo-A antibody treatment, BDNF did not compensate the extra deleterious motor effect caused by large size cervical cord hemi-section in adult macaques. *CNS Neuroscience & Therapeutics*, [doi: 10.1111/cns.13213](https://doi.org/10.1111/cns.13213), p. 1-10. [[pdf](#)]

**158\*** Roux C.\*, Kaeser M.\*, Savidan J., Fregosi M., **Rouiller E.M.** and Schmidlin E. (2019) Assessment of the effect of continuous theta burst stimulation of the motor cortex on manual dexterity in non-human primates in a direct comparison with invasive intracortical pharmacological inactivation. *European J. Neurosci.* [doi: 10.1111/ejn.14517](https://doi.org/10.1111/ejn.14517), p. 1-15.

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