

Preprints and manuscripts:

1. Korvasova K, Ludwig F, Kaneko H, Sosulina L, Tetzlaff T, Remy S. **Mikulovic S***. “Locomotion induced by medial septum glutamatergic neurons is linked to intrinsically generated persistent firing”. BioRxiv 2021; *under review in eLife*
<https://www.biorxiv.org/content/10.1101/2021.04.23.441122v1>,
2. Mocellin P, Luxem K, Kaneko H, **Mikulovic S**, Remy S. “An exploratory locomotor circuit links MSDB VGluT2+ neurons and VTA”. in preparation, *shared senior contribution, under review in Neuron*

Editorials:

1. Caliskan G, **Mikulovic S***, Girardeau G. “Functional Aspects of Mesoscopic Brain Oscillations: Insights From in vivo and in vitro Studies”. *Frontiers in Neural Circuits*, 2022, Jul 4;16:960157

Peer-reviewed publications:

1. Mocellin P, **Mikulovic S***. 2021. The Role of the Medial Septum—Associated Networks in Controlling Locomotion and Motivation to Move. *Front. Neural Circuits*.
<https://www.frontiersin.org/articles/10.3389/fncir.2021.699798/full>
2. Sarkar I, Maji I, Omprakash C, Stober S, **Mikulovic S**, Bauer P. 2021. Evaluation of deep lift pose models for 3D rodent pose estimation based on geometrically triangulated data. CV4Animals Workshop, CVPR 2021. <https://arxiv.org/abs/2106.12993>
3. Hilscher MM, Nogueira I, **Mikulovic S**, Kullander K, Leao RN, Leao KE. „Chrna2-OLM interneurons display different membrane properties and h-current magnitude depending on dorsoventral location” *Hippocampus*. 2019. 10.1002/hipo.23134
4. **Mikulovic S***, Restrepo CE, Siwani S, Bauer P, Pupe S, Tort AB, Kullander K, Leao RN. “Ventral hippocampal OLM cells control type 2 theta oscillations and response to predator odor.” *Nature Communications*. 2018; 9(1):3638.
5. Siwani S, Franca ASC, **Mikulovic S**, Reis A, Hilscher MM, Edwards SJ, Leao RN, Tort AB, Kullander K, Leao RN. “OLM₂ Cells Bidirectionally Modulate Learning.” *Neuron*. 2018; 99(2):404-412.e3.
6. Winne J, Franzon R, De Miranda A, Malfatti T, Patriota J, **Mikulovic S**, Leao KE, Leao RN. “Salicylate induces anxiety-like behavior and slow theta oscillation and abolishes the relationship between running speed and fast theta oscillation frequency”. *Hippocampus*. 2018; 0.1002/hipo.23021.
7. Bauer P, Engblom S, **Mikulovic S**, Senek A. “Multiscale modelling via split-step methods in neural firing”. *Mathematical and Computer Modelling of Dynamical Systems*. 2018; 10.1080/13873954.2018.1488740.
8. **Mikulovic S**, Pupe S, Maia Peixoto H, Nascimento G, Kullander K, Tort AB, Leao RN. “On the photovoltaic effect in local field potential recordings.” *Journal of Neurophotonics*. 2016; 3(1):015002.
9. **Mikulovic S**, Restrepo CE, Hilscher MM, Kullander K, Leao RN. “Novel markers for OLM interneurons in the hippocampus.” *Frontiers in Cellular Neuroscience*. 2015; 2;9:201.

10. Arvidsson E, Viereckel T, **Mikulovic S**, Wallén-Mackenzie Å. "Age- and sex-dependence of dopamine release and capacity for recovery identified in the dorsal striatum of C57/Bl6J mice." *PLoS One*. 2014; 9(6):e99592.

11. Zelano J, **Mikulovic S**, Patra K, Kuehnemund M, Larhammar M, Emilsson L, Leao RN, Kullander K. "The synaptic protein encoded by the gene Slc10A4 suppresses epileptiform activity and regulates sensitivity to cholinergic chemoconvulsants." *Journal of Experimental Neurology*. 2013; 239:73-81.

12. Leao RN, **Mikulovic S**, Leao KE, Munguba H, Gezelius H, Enjin A, Patra K, Eriksson A, Loew LM, Tort AB, Kullander K. "OLM interneurons differentially modulate CA3 and entorhinal inputs to hippocampal CA1 neurons." *Nature Neuroscience*. 2012; 15(11):1524-30.

13. Enjin A, Leao KE, **Mikulovic S**, Le Merre P, Tourtellotte WG, Kullander K. "Sensorimotor function is modulated by the serotonin receptor 1d, a novel marker for gamma motoneurons." *Journal of Molecular and Cellular neuroscience*. 2012; 49(3):322-32.

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