

Elena Dossi – Publications

- 1) Vasile F*, **Dossi E***, Moulard J, Ezan P, Lecoin L, Cohen-Salmon M, Mailly P, Le Bert M, Couillin I, Bemelmans A, Rouach N (2022) Astroglial pannexin 1 sets hippocampal neuronal network patterns, **Plos Biology**, 20(12):e3001891. ***Equal contribution.**
- 2) Gataullina S, Galvani G, Touchet S, Nous C, Lemaire E, Laschet J, Chiron C, Dulac O, **Dossi E**, Brion JD, Messaoudi S, Alami M, Huberfeld G (2022) GluN2C selective inhibition is a target to develop new antiepileptic compounds, **Epilepsia**, 00:1-14.
- 3) **Dossi E**, Rouach N (2021) Pannexin 1 channels and ATP release in epilepsy: two sides of the same coin, **Purinergic Signal**, 17(4):533-548.
- 4) Castellanos IM, **Dossi E**, Vion-Bailly J, Salette L, Chapelon JY, Carpentier A, Huberfeld G, N'Djin WA (2021) Spatio-temporal characterization of casual electrophysiological activity stimulated by single pulse Focused Ultrasound: an ex vivo study on hippocampal brain slices, **J Neural Eng**, 18(2), 026022.
- 5) Castellanos IM, Apoutou N, Vion-Bailly J, **Dossi E**, Carpentier A, Huberfeld G, Chapelon JY (2019) Microelectrode array (MEA) for measuring spatio-temporal neural activity generated by low-energy focused ultrasound (LEFUS) in ex vivo brain slices, **J Acoust Soc Am**, 146, 3030.
- 6) Blauwblomme T, **Dossi E**, Pellegrino C, Goubert E, Gal Iglesias B, Sainte-Rose C, Rouach N, Nabbout R, Huberfeld G (2019) GABAergic transmission underlies interictal epileptogenicity in pediatric FCD, **Annals of Neurology**, 85(2):204-2017.
- 7) Pannasch U*, **Dossi E***, Ezan P, Rouach N (2019) Astroglial Cx30 sustains neuronal population bursts independently of gap-junction mediated biochemical coupling, **Glia**, 67(6):1104-1112. ***Equal 1st author.**
- 8) **Dossi E**, Blauwblomme T, Moulard J, Chever O, Vasile F, Guinard E, Le Bert M, Couillin I, Pallud J, Capelle L, Huberfeld G, Rouach N (2018) Pannexin1 channels as therapeutic target for controlling seizure generation in humans, **Science Translational Medicine**, 10(443), pii: eaar3796.
- 9) **Dossi E***, Vasile F*, Rouach N (2018) Human astrocytes in the diseased brain, **Brain Research Bulletin**, 136:139-156. ***Equal contribution.**
- 10) Vasile F*, **Dossi E***, Rouach N (2017) Human astrocytes: structure and functions in the healthy brain, **Brain Structure and Function**, 222(5):2017-2029. ***Equal contribution.**
- 11) Wanke E, Gullo F, **Dossi E**, Valenza G, Becchetti A (2016) Neuron-glia crosstalk revealed in reverberating networks by simultaneous extracellular recording of spikes and astrocytes' glutamate transporter and K⁺ currents. **Journal of Neurophysiology**, 116(6):2706-2719.
- 12) Chever O*, **Dossi E***, Rouach N (2016) Astrocyte control of neuronal synchrony: mind the GAP!, **Médecine/Sciences**, n°10, vol 32. ***Equal contribution.**
- 13) Depauw A, **Dossi E**, Kumar N, Fiorini-Debuisschert C, Huberfeld G, Ha-Thi MH, Rouach N, Leray I (2016) A highly selective potassium sensor for the detection of potassium in living tissues. **Chemistry-A European Journal**, 22:1-11.
- 14) Chever O, **Dossi E**, Pannasch U, Derangeon M, Rouach N (2016) Astroglial networks promote neuronal coordination. **Science Signaling**, 9(410):ra6.
- 15) **Dossi E**, Blauwblomme T, Nabbout R, Huberfeld G, Rouach N (2014) Multi-electrode array recordings of human epileptic postoperative cortical tissue. **Journal of Visualized Experiments**, 92:e51870.
- 16) Colombo L, Parravicini C, Lecca D, **Dossi E**, Heine C, Cimino M, Wanke E, Illes P, Franke H, Abbracchio MP (2014) Ventral tegmental area/substantia nigra and prefrontal cortex rodent organotypic brain slices as an integrated model to study the cellular changes induced by oxygen/glucose deprivation and reperfusion: effect of neuroprotective agents. **Neurochemistry International**, 66:43-54.

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- 17) **Dossi E**, Heine C, Servettini I, Gullo F, Sygnecka K, Franke H, Illes P, Wanke E (2013) Functional regeneration of the *ex-vivo* reconstructed mesocorticolimbic dopaminergic system, **Cerebral Cortex**, 23(12):2905-22.
- 18) Puia G, Gullo F, **Dossi E**, Lecchi M, Wanke E (2012) Novel modulatory effects of neurosteroids and benzodiazepines on excitatory and inhibitory neurons excitability: a multi-electrode array recording study. **Frontiers in Neural Circuits** 6:94.
- 19) Becchetti A, Gullo F, Bruno G, **Dossi E**, Lecchi M, Wanke E (2012) Exact distinction of excitatory and inhibitory neurons in neural networks: a study with GAD67-GFP neurons optically and electrophysiologically recognized on multi-electrode arrays, **Frontiers in Neural Circuits**, 6:63.
- 20) Gullo F, Maffezzoli A, **Dossi E**, Wanke E (2012) Classifying heterogeneity of spontaneous Up-states: a method for revealing variations in firing probability, engaged neurons and fano factor”, **Journal of Neuroscience Methods**, 203(2):407-417.
- 21) Gullo F, Mazzetti S, Maffezzoli A, **Dossi E**, Lecchi M, Amadeo A, Krajewski J and Wanke E (2010) Orchestration of ‘*presto*’ and ‘*largo*’ synchrony in up-down activity of cortical networks. **Frontiers in Neural Circuits**, 4:11.
- 22) Gullo F, Maffezzoli A, **Dossi E**, Wanke E (2009) Short-latency cross- and autocorrelation identify clusters of interacting cortical neurons recorded from multi-electrode array. **Journal of Neuroscience Methods**, 181(2):186-198.