



## Gergely Szabo

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### Publications

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#### PUBLICATIONS

- **Dentate gyrus mossy cells control spontaneous convulsive seizures and spatial memory** *Science*  
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2018; 787–90
- **Extended Interneuronal Network of the Dentate Gyrus.** *Cell reports*  
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- **Pass-Through Code of Synaptic Integration.** *Neuron*  
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- **Resolution revolution: epilepsy dynamics at the microscale** *CURRENT OPINION IN NEUROBIOLOGY*  
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- **Anatomically Heterogeneous Populations of CB1 Cannabinoid Receptor-Expressing Interneurons in the CA3 Region of the Hippocampus Show Homogeneous Input-Output Characteristics** *HIPPOCAMPUS*  
Szabo, G. G., Papp, O. I., Mate, Z., Szabo, G., Hajos, N.  
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- **Cerebellar Directed Optogenetic Intervention Inhibits Spontaneous Hippocampal Seizures in a Mouse Model of Temporal Lobe Epilepsy.** *eNeuro*  
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- **The Effects of an Echinacea Preparation on Synaptic Transmission and the Firing Properties of CA1 Pyramidal Cells in the Hippocampus** *PHYTOTHERAPY RESEARCH*  
Hajos, N., Holderith, N., Nemeth, B., Papp, O. I., Szabo, G. G., Zemankovics, R., Freund, T. F., Haller, J.  
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- **Parvalbumin-Containing Fast-Spiking Basket Cells Generate the Field Potential Oscillations Induced by Cholinergic Receptor Activation in the Hippocampus** *JOURNAL OF NEUROSCIENCE*  
Gulyas, A. I., Szabo, G. G., Ulbert, I., Holderith, N., Monyer, H., Erdelyi, F., Szabo, G., Freund, T. F., Hajos, N.  
2010; 30 (45): 15134-15145
- **Distinct synaptic properties of perisomatic inhibitory cell types and their different modulation by cholinergic receptor activation in the CA3 region of the mouse hippocampus** *EUROPEAN JOURNAL OF NEUROSCIENCE*  
Szabo, G. G., Holderith, N., Gulyas, A. I., Freund, T. F., Hajos, N.  
2010; 31 (12): 2234-2246