

Curriculum vitae

Name: Gergő A. Nagy

Nationality: Hungarian

Date of birth: 29.09.1990.

Place of birth: Budapest

E-mail: gerii.nagy@gmail.com

Education:

- University of Szeged, 2012-2015, BSc in Biology (Cell- and Molecular Biology)
- University of Szeged, 2015- 2017, MSc in Biology (Neuro- and Human Biology)

Languages:

- English, intermediate level (B2)

RESEARCH EXPERIENCE:

1. Current (2016-present; PhD student):

- **Supervisor:** Norbert Hájos, PhD, DSc
- **Institution:** Institute of Experimental Medicine of the Hungarian Academy of Sciences
- **Laboratory:** 'Lendület' Laboratory of Network Neurophysiology

2. Previous (2015-2016; undergraduate student):

- **Supervisors:** Antonio Fernández-Ruiz, PhD; Azahara Oliva González, PhD; Antal Berényi MD, PhD
- **Institution:** University of Szeged, Faculty of Medicine, Department of Physiology
- **Laboratory:** MTA-SZTE 'Lendület' Oscillatory Neuronal Networks Research Group

3. Previous (2007-2015; undergraduate student):

- **Supervisor:** Norbert Hájos, PhD, DSc
- **Institution:** Institute of Experimental Medicine of the Hungarian Academy of Sciences
- **Laboratory:** 'Lendület' Laboratory of Network Neurophysiology

SCIENTIFIC STUDENTS' CONFERENCES:

- 2012, Szeged – Biology Scientific Students' Associations Conference of University of Szeged ('TDK'), 2nd prize
- 2013, Szeged – National Scientific Students' Associations Conference ('OTDK'), 2nd prize

PUBLICATIONS:

- Fernández-Ruiz, A., Oliva, A., Nagy, G. A., Maurer, A. P., Berényi, A., & Buzsáki, G. (2017). Entorhinal-CA3 Dual-Input Control of Spike Timing in the Hippocampus by Theta-Gamma Coupling. *Neuron*, 93(5), 1213-1226.

- Veres, J. M., Nagy, G. A., & Hájos, N. (2017). Perisomatic GABAergic synapses of basket cells effectively control principal neuron activity in amygdala networks. *eLife*, 6, e20721.
- Vereczki, V. K., Veres, J. M., Müller, K., Nagy, G. A., Racz, B., Barsy, B., & Hájos, N. (2016). Synaptic organization of perisomatic GABAergic inputs onto the principal cells of the mouse basolateral amygdala. *Frontiers in Neuroanatomy*, 10.
- Veres, J. M., Nagy, G. A., Vereczki, V. K., András, T., & Hájos, N. (2014). Strategically positioned inhibitory synapses of axo-axonic cells potentially control principal neuron spiking in the basolateral amygdala. *The Journal of Neuroscience*, 34(49), 16194-16206.
- Nagy, G. A., Botond, G., Borhegyi, Z., Plummer, N. W., Freund, T. F., & Hájos, N. (2013). DAG-sensitive and Ca²⁺ permeable TRPC6 channels are expressed in dentate granule cells and interneurons in the hippocampal formation. *Hippocampus*, 23(3), 221-232.
- Holderith, N., Németh, B., Papp, O. I., Veres, J. M., Nagy, G. A., & Hájos, N. (2011). Cannabinoids attenuate hippocampal gamma oscillations by suppressing excitatory synaptic input onto CA3 pyramidal neurons and fast spiking basket cells. *The Journal of physiology*, 589(20), 4921-4934

POSTERS:

- Nagy, G.A., Fernández-Ruiz, A., Oliva González, A., Buzsáki, Gy., Berényi, A. (2016 IBRO, Budapest) Behavioral modulation of layer-specific activity in the entorhinal cortex.
- Fernández-Ruiz, A., Oliva González, A., Nagy, G.A., Buzsáki, Gy., Berényi, A. (2016 IBRO, Budapest) Cortical and intra-hippocampal gamma inputs compete or cooperate to control spiking dynamics during behaviour
- Veres, J. M., Vereczki, V. K., Müller, K., Nagy, G.A., Racz, B., Barsy, B., Hájos, N. (2016 IBRO, Budapest) Synaptic organization of perisomatic GABAergic inputs onto the principal cells of the basolateral amygdala
- Vereczki, V. K., Veres, J. M., Végh, L., Nagy, G.A., Racz, B., Viktor, A., Müller, K., Hájos, N. (2015 MITT, Budapest) Morphological characteristics of three distinct GABAergic interneuron types targeting the perisomatic region of principal cells in the mouse basolateral amygdala
- Nagy, G.A., Veres, J.M., Viktor, A., Racz, B., Hájos, N. (2014 FENS, Milan) Target distribution of three distinct types of GABAergic interneurons in the basolateral amygdala
- Veres, J.M., Vereczki, V.K., Nagy, G.A., Racz, B., Hájos, N. (2014 IBRO, Debrecen) Strategically positioned inhibitory synapses of axo-axonic cells potentially control spiking of amygdalar principal neurons
- Veres, J.M., Nagy, G.A., Hájos, N. (2013 MITT, Budapest) Effective control of principal cell firing by fast spiking and regular spiking inhibitory cells in mouse basolateral amygdala

- Papp, O., Holderith, N., Németh, B., Veres, J.M., Nagy, G.A., Hájos, N. (2011 SiNAPSA Neuroscience Conference, Ljubljana) Suppression of excitatory synaptic inputs onto CA3 pyramidal cells and fast spiking basket cells by CB1 cannabinoid receptor activation results in the impairment of hippocampal gamma oscillations
- Nagy, G.A., Botond, G., Borhegyi, Zs., Freund, T.F., Hájos, N. (2011 MITT, Budapest) Subcellular distribution of TRPC6 channel proteins in the hippocampus.

SCIENTIFIC AWARDS, SCHOLARSHIPS:

- Excellent Student of Újpest (2009)
- National Conference of Scientific Students' Association (TUDOK) 1st award (2009)
- Scholarship of the Hungarian Republic (2014-2015)
- University of Szeged Talentpoint, List of Excellence, Silver Award (2015)
- Stephen W. Kuffler Research Scholarship (2016)