

## EMMA HARSÁNYI



National Academy of Scientist Education, 2<sup>nd</sup> year

Semmelweis University  
Faculty of Medicine, 2<sup>nd</sup> year

**YEAR OF BIRTH**

2004

**FORMER SZENT-GYÖRGYI PUPIL**

yes

**SZENT-GYÖRGYI MENTOR**

Judit Makara

**JUNIOR MENTOR**

-

**SPECIALIZATION**

neuroscience

**SECONDARY SCHOOL**

Ágoston Trefort  
Practising High School of  
Eotvos Lorand University

**NAME OF TEACHER**

Norbert Faragó,  
Julianna Erős-Honti,  
Gábor Gedeon

**LANGUAGES**

German/C1  
English/B2

**IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH**

The hippocampus is a subcortical brain structure, which is primarily responsible for memory and orientation. Our research group examine the functions of the hippocampus in the context of in vivo studies and other experiments. During these studies the animal performs a learning and orientation task. Our focus lies on the single cell and network level equally. Our methods include patch-clamp electrophysiology, two-photon imaging and two-photon glutamate uncaging as well. Uncovering the exact functioning of the hippocampus can be a significant step forward in the treatment of memory disorders.

**AMBITIONS AND CAREER GOALS**

My main purpose is to master the laboratory methods used by my research team, as thoroughly as possible. Beside this practical experience I will also strive to acquire significant theoretical knowledge. After graduating, I would like to obtain a PhD degree and continue to work in brain research.

**HONORS AND PRIZES**

Biology OKTV 2022 I. category 22<sup>nd</sup> place  
Biology OKTV 2023 II. category 12<sup>nd</sup> place

**PUBLICATIONS**

-