

RÉKA ZSÓFIA SEBESTÉNY



National Academy of Scientist Education, 6th year

Semmelweis University
Faculty of Medicine, 6th year

YEAR OF BIRTH

2001

FORMER SZENT-GYÖRGYI PUPIL

no

RESEARCH UNIT

Institute of Experimental
Medicine

SZENT-GYÖRGYI MENTOR

Gábor Nyiri

JUNIOR MENTOR

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SPECIALIZATION

neuroscience

SECONDARY SCHOOL

Frankfurt International
School

NAME OF TEACHER

Christopher Neumann

LANGUAGES

English/advanced
German/advanced

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

As a student researcher I am investigating the cortical pathways and their role in memory formation. In the brain, spatial and episodic memory cues are encoded by different small subpopulations of principal hippocampal neurons called engram cells. My goal is to gain a deeper understanding of the formation of these cell assemblies and thus understand the precise function of memory formation and recall itself. Our results are expected to contribute to a better understanding of memory processes and could help the development of treatment for memory problems.

AMBITIONS AND CAREER GOALS

My primary goal in my research career is my own professional development. I would like to become as independent of a researcher as possible and be able to realise my own ideas to the fullest. I would like to further develop my skills in stereotaxic and optical fibre surgery as well as further my knowledge in the design of behavioural experiments. My long term goal would be to write and publish my own research results.

HONORS AND PRIZES

2024 Semmelweis University Students' Scientific Conference, 1st place
2023 National Students' Scientific Conference, 1st place
2022 Semmelweis University Students' Scientific Conference, 1st place

PUBLICATIONS

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