

PÉTER BERKI



National Academy of Scientist Education, 1st year

Semmelweis University
Faculty of Medicine, 1st year

YEAR OF BIRTH

2005

FORMER SZENT-GYÖRGYI PUPIL

yes

SZENT-GYÖRGYI MENTOR

Andrea Fekete

JUNIOR MENTOR

Dóra Balogh

SPECIALIZATION

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SECONDARY SCHOOL

Katona József Secondary
Grammar School,
Kecskemét

NAME OF TEACHER

Adrien Lengyel,
Gergely Halász

LANGUAGES

English / B2
German / C1

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

My research would investigate the various functions of a membrane-bound protein, the Sigma-1 receptor, in fibrotic processes. This type of receptor is mainly present in the central nervous system, however, my mentors and their research team have previously proven the presence of this type of receptor peripherally, in various organs. One agonist of the receptor, fluvoxamine, could be an effective treatment method in several diseases (e.g., glaucoma). My current research investigates the role of the Sigma-1 receptor in the pathomechanism of endometriosis. The goal of my research is to similarly prove the beneficial effects of the receptor and fluvoxamine in the process of this disease, and in the case of successful results, the development of a possible drug.

AMBITIONS AND CAREER GOALS

For now, I see myself as a practicing doctor in the future, but regardless of this, I would like to understand the process that is necessary for the development of a drug, for example. I would like to learn the techniques and technologies that are the pillars of such research. Research is an indispensable area of medicine, so I want to be as up-to-date as possible with current publications and results. The Academy's program provides a perfect opportunity for all of this, so obviously my goal is to remain part of the program for as long as possible.

HONORS AND PRIZES

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PUBLICATIONS

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