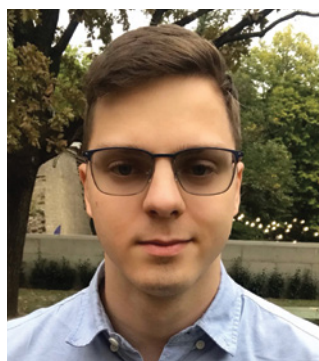# BENCE PÓSA

National Scientists Academy, 3rd year

University of Szeged,
Albert Szent-Györgyi Medical School, 3rd year

YEAR OF BIRTH:

2000

FORMER SZENT-GYÖRGYI PUPIL:

yes

SZENT-GYÖRGYI MENTOR:

Zsigmond Tamás Kincses

SPECIALIZATION:

neurology,
migraine

SECONDARY SCHOOL:

Radnóti Miklós
Experimental Grammar
School, Szeged

NAME OF TEACHER:

Viktória Gál

LANGUAGES:

English/advanced

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Magnetic Resonance Imaging (MRI) is a diagnostic tool, which is useful in fundamental research as well. Because it is a non-invasive procedure, it can be used in wide range of cases with only a few exceptions. Beyond the structure of the brain, functional networks could be investigated with MRI. This widely used tool in clinical neuroscience is applied in various diseases such as multiple sclerosis and migraine. Migraine is the most frequent neurological disorder in adults, affecting up to 12% of the general population, primarily women. Its origin and pathomechanism are unknown, but functional and structural differences in migraine patients' brain are detected. This knowledge can be helpful to develop more efficient therapies. Moreover, through understanding of the background of the disease we can get closer to the understanding of the human body's pain processing. The focus of my research project is the alteration of functional networks and their association with clinical data in migraine. This can lead us closer to the understanding of this disease.

AMBITIONS AND CAREER GOALS

During my studies I would like to get to know most fields of medical science and to been able to acquire knowledge which is essential to be a good physician. I would like to gain experience in Hungary as well as abroad to become more effective in my profession. I think it is important not only to care about the present status of medical science but also to build its future as a researcher. For a doctor life-long learning is a really important task, but not only from the books also from the nature.

HONORS AND PRIZES

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PUBLICATIONS

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