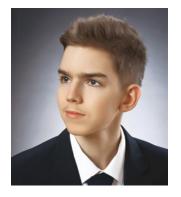
# CSONGOR BENCE LUDÁNYI



#### **YEAR OF BIRTH**

2001

FORMER SZENT-GYÖRGYI PUPIL

yes

### **RESEARCH UNIT**

University of Szeged

#### SZENT-GYÖRGYI MENTOR

Gábor Tamás

#### **JUNIOR MENTOR**

Gábor Molnár

#### **SPECIALIZATION**

neurophysiology

## SECONDARY SCHOOL

Bolyai János Secondary Grammar School in Kecskemét

## NAME OF TEACHER

Éva Kemény Kothenczné, Dezső Sikó

LANGUAGES

English/intermediate

National Academy of Scientist Education, 3<sup>rd</sup> year University of Szeged

Szent-Györgyi Albert Medical School, 4th year

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

In the vertebrate central nervous system, the cerebral cortex processes sensory information, which, combined with memory and experience, creates complex behavior. Joining the ELKH-SZTE Cortical Microcircuits Research Group, I perform electrophysiological tests on samples from rodents and on human samples originate from neurosurgical operations using the in vitro patch clamp method. Our main goal is to investigate the basic functioning and synaptic connectivity of the neuronal networks present in the cerebral cortex, especially in the connections containing inhibitory GABAergic interneurons.

The less profession-specific goal of my research is the acquisition and development of general skills such as problem-solving ability, creativity, cooperation, professional humility, and respect for my experienced mentors and colleagues.

## **AMBITIONS AND CAREER GOALS**

As a member of the ELKH-SZTE Cortical Microcircuits Research Group, my professional goal is to learn electrophysiological methods and their application in experiments. My further aim is to acquire a critical way of thinking through conducting experiments and by having professional consultations on them, which will later advance my service as a doctor.

## **HONORS AND PRIZES**

# PUBLICATIONS