

HANNA LÉNA UJHEGYI



National Academy of Scientist Education, 1st year

Eötvös Lorand University
Faculty Science, Biology BSc 1st year

YEAR OF BIRTH

2006

FORMER SZENT-GYÖRGYI PUPIL

yes

RESEARCH UNIT

Eötvös Lorand University
Faculty Science

SZENT-GYÖRGYI MENTOR

Mihály Kovács

JUNIOR MENTOR

Patrik Horváth

SPECIALIZATION

Biochemistry

SECONDARY SCHOOL

Veresegyházi Katolikus
Gimnázium

NAME OF TEACHER

Péter Hajdú

LANGUAGES

English/C1

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

The research's aim is to define the mechanisms how the mitochondrial single-stranded DNA binding protein (mtSSB) together with other factors maintain mitochondrial DNA (mtDNA) integrity, especially under conditions of stress. The wellbeing of the mitochondria is essential for the healthy functioning of our cells. The damage of the mtDNA is associated with cancerous, neurodegenerative and metabolic diseases. The research of the Motor Enzymology Research Group can lead to a big impact of how we cure these diseases and can rewrite our understanding of the biochemical pathways in the mitochondria.

AMBITIONS AND CAREER GOALS

As an adherent of the categorical imperative, I believe that every human being has an innate duty to contribute as much as possible to the development of the world and to help their fellow human beings beyond their means. Biology is an excellent tool for this, as it holds many possibilities, the discovery of which could significantly improve the quality of people's lives. I would like to make the most of this career and use my skills and knowledge for a nobler purpose.

HONORS AND PRIZES

Verka Memory Pledge (for six years of being a straight-A student and for community service)

PUBLICATIONS

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