

## BOTOND DÁVID VINCZE



National Academy of Scientist Education, 1<sup>st</sup> year

University of Szeged

Szent-Györgyi Albert Medical School, 1<sup>st</sup> year

#### YEAR OF BIRTH:

2003

#### FORMER SZENT-GYÖRGYI PUPIL:

yes

#### SZENT-GYÖRGYI MENTOR:

Csaba Pál

#### JUNIOR MENTOR:

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#### SPECIALIZATION:

antibiotic resistance,  
experimental evolutionary  
biology

#### SECONDARY SCHOOL:

Városmajori High School

#### NAME OF TEACHER:

Anna Solt Jánossyné,  
Andrea Hodula

#### LANGUAGES:

German/advanced  
English/intermediate

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

My goal is a more thorough understanding of cross-effects and resistance mechanisms between antibiotics. This will also contribute to the development of targeted therapeutic strategies and drugs that may be able to inhibit the growth and survival of multidrug resistant microorganisms.

Antibiotics are increasingly becoming ineffective against resistant microorganisms, with serious consequences for global healthcare. The results of my research can contribute to new informations about resistance mechanisms, help health professionals identify and treat resistant microorganisms, and serve as a basis for developing new antibiotics and reducing resistance, maintaining the effectiveness of antimicrobial therapies and preventing the spread of resistant microorganisms.

#### AMBITIONS AND CAREER GOALS

My goal is to gain knowledge beyond my university studies and to contribute to the scientific community in order to gain a deeper understanding of the field of antibiotic resistance. My short-term goal is to develop a new effective strategy for the treatment of multidrug-resistant bacteria with existing and experimental active substance, which can be crucial in the treatment of infectious diseases. I want to develop my problem-solving skills, ask better questions, and refine my data analysis and evaluation skills. These skills are essential for the foundation of my long-term goal, my research career.

#### HONORS AND PRIZES

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#### PUBLICATIONS

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