

# ANDRÁS ZOLTÁN VONYÓ



National Academy of Scientist Education, 4<sup>th</sup> year

University of Szeged  
Faculty of Science and Informatics, MSc 1<sup>st</sup> year

## YEAR OF BIRTH

2002

## FORMER SZENT-GYÖRGYI PUPIL

no

## RESEARCH UNIT

HUN-REN Biological  
Research Centre

## SZENT-GYÖRGYI MENTOR

Szilvia Juhász

## JUNIOR MENTOR

Petra Szili

## SPECIALIZATION

Antibiotic resistance,  
Host-pathogen interaction

## SECONDARY SCHOOL

Vetési Albert Gimnázium

## NAME OF TEACHER

Rózsa Likerné Pucsek

## LANGUAGES

English/C1

## IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

In my research, I investigate additional changes that arise in bacteria as a consequence of the development of antibiotic resistance. Mutations and genes responsible for resistance can also affect other biological processes and may increase the virulence of pathogens. Certain antibiotics can impose selective pressure on bacterial populations, which in the long term may lead to the emergence of more severe infections and complications. Our aim is to characterize mutations specific to different antibiotics that may render human pathogenic bacteria more dangerous. Our results will indicate which resistance-conferring mutations require particular attention in clinical settings, and which antibiotics should be preferentially used during bacterial infections in order to avoid the development of potential superbugs.

## AMBITIONS AND CAREER GOALS

My goal is to acquire in-depth knowledge of the biological sciences throughout my scientific career and, as an internationally recognized researcher, to contribute through my work to the continuous progress of humanity.

## HONORS AND PRIZES

- 2025 37<sup>th</sup> National Scientific Students' Associations Conference (OTDK) – Special Prize
- 2025 University of Szeged Talent Excellence List – Bronze Level
- 2025 National Higher Education Scholarship
- 2025 University of Szeged Start Scholarship
- 2025 Scientific Students' Associations Conference (TDK) – Medical Section: 3<sup>rd</sup> Prize
- 2025 Scientific Students' Associations Conference (TDK) – Medical Section: 2<sup>nd</sup> Prize
- 2024 Scientific Students' Associations Conference (TDK) – Biology Section: 3<sup>rd</sup> Prize
- 2022 University of Szeged Start Scholarship

## PUBLICATIONS

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