

## BOLDIZSÁR VÁMOSI



National Academy of Scientist Education, 6<sup>th</sup> year

Semmelweis University  
Faculty of Medicine, 6<sup>th</sup> year

### YEAR OF BIRTH

2000

### FORMER SZENT-GYÖRGYI PUPIL

no

### SZENT-GYÖRGYI MENTOR

Balázs Enyedi

### JUNIOR MENTOR

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### SPECIALIZATION

physiology

### SECONDARY SCHOOL

Fazekas Mihály High School,  
Debrecen

### NAME OF TEACHER

László Adorján

### LANGUAGES

English/C2

### IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Intercellular communication is key to the body's coordinated response to tissue injury, allowing immune cells to migrate towards the wound within minutes and participate in the fight against pathogens and the coordination of wound healing. Our research aims to understand the molecular mechanisms of the response to tissue injury. This includes the development of fluorescent biosensors which are capable of real time detection of the release of mediators of the inflammatory response in living organisms. The short term goal of our research is to develop a novel system that allows us to efficiently develop new fluorescent biosensors suitable for in vivo microscopy. We hope that these new tools will help us to get closer to understanding the complex mechanisms of wound healing.

### AMBITIONS AND CAREER GOALS

My aim as a doctor is to help people as much as possible with a broad perspective, empathy, social responsibility and scientific rigour. As part of this, as a clinician, I want to contribute to patient care by being well-versed in my field, effectively applying current medical knowledge, and as a researcher, I want to contribute to the advancement of medicine.

### HONORS AND PRIZES

- 2024 SE Students' Scientific Conference, 2<sup>nd</sup> place
- 2023 36<sup>th</sup> National Students' Scientific Conference (Physiology, pathophysiology section): 1<sup>st</sup> place and special award of the Hungarian Physiological Society
- 2023 Semmelweis University Students' Scientific Conference (Physiology, pathophysiology section): 1<sup>st</sup> place and special award of the Hungarian Physiological Society
- 2022 Semmelweis University Students' Scientific Conference (Physiology, pathophysiology section): 3<sup>rd</sup> place
- 2022 Semmelweis University Students' Scientific Conference (Cell biology, cellular physiology and biochemistry section): 1<sup>st</sup> place as co-author

### PUBLICATIONS

Tamás, S.X., Roux, B.T., **Vámosi, B.** et al. (2023) A genetically encoded sensor for visualizing leukotriene B4 gradients in vivo. **Nat Commun** 14, 4610.