

## BARNABÁS PAULOVITS



National Academy of Scientist Education, 2<sup>nd</sup> year

Semmelweis University  
Faculty of Medicine, 3<sup>rd</sup> year

### YEAR OF BIRTH

2003

### FORMER SZENT-GYÖRGYI PUPIL

no

### SZENT-GYÖRGYI MENTOR

Balázs Enyedi

### JUNIOR MENTOR

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### SPECIALIZATION

inflammation biology and  
genetic engineering

### SECONDARY SCHOOL

Radnóti Miklós Practising  
High School of Eotvos  
Lorand University

### NAME OF TEACHER

Dr. Katalin Molnár,  
Viktor Albert

### LANGUAGES

English/intermediate

### 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

During my time at university, I will try to acquire as much theoretical and practical knowledge as possible, which I will be able to apply in my clinical work. I also want to be actively involved in academic life. Participating in research will give me the opportunity to gain a deeper understanding of scientific methods and will also provide me with a problem-solving mindset that I will be able to use in my future career.

### HONORS AND PRIZES

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### PUBLICATIONS

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