

## SIMON VIKÁR



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

Semmelweis University School of PhD Studies  
Molecular Medicine Division, 1<sup>st</sup> year

### YEAR OF BIRTH

1998

### FORMER SZENT-GYÖRGYI PUPIL

no

### RESEARCH UNIT

Semmelweis University

### SZENT-GYÖRGYI MENTOR

Attila Mócsai

### JUNIOR MENTOR

-

### SPECIALIZATION

physiology,  
immunology,  
autoimmune and  
inflammatory diseases

### SECONDARY SCHOOL

Veres Péter High School,  
Békásmegyér

### NAME OF TEACHER

Nicolette Vadlerné Győri

### LANGUAGES

English/intermediate  
German/intermediate

### IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

My research encompasses the examination of the pathomechanism of bullous pemphigoid (BP), a rare autoimmune blistering. In this disease, the patients have severe pain and itching due to the developing tight blisters, but currently, for these symptoms, there is no specific therapy available. The investigation of BP pathology was made possible by a fully human ex vivo skin separation model that we previously set up, which replicated BP pathophysiology in our lab. Currently, I am using this model to assess the efficacy of various inhibitors and prospective medicinal treatments that can be further investigated in clinical investigations. With this research, I'm hoping to discover medicines that can effectively cure the severe symptoms of these individuals.

### AMBITIONS AND CAREER GOALS

During my career, I want to work on the unanswered problems in rheumatology and immunology, two of the medical specialties that I find most fascinating. I'm hoping to get the chance to study and treat these critical, fascinating diseases from both a clinical and a scientific perspective. I also hope that I will be able to contribute to the body of knowledge about these diseases that is already known to humanity.

### HONORS AND PRIZES

- 2023 National Scientific Students' Associations Conference, 1<sup>st</sup> place
- 2022 Semmelweis University Students' Scientific Conference, 1<sup>st</sup> place
- 2021 Semmelweis University Students' Scientific Conference

### PUBLICATIONS

**Vikár S**, Szilveszter KP, Koszorú K, Sárdy M, Mócsai A. The Syk inhibitor entospletinib abolishes dermal-epidermal separation in a fully human ex vivo model of bullous pemphigoid. *J Invest Dermatol.* 2024 Jan 29;S0022-202X(24)00080-0. doi: 10.1016/j.jid.2024.01.009. Epub ahead of print. PMID: 38296021.

Szilveszter KP, **Vikár S**, Horváth IÁ, Helyes Zs, Sárdy M, Mócsai A: Phospholipase C $\gamma$ 2 Is Essential for Experimental Models of Epidermolysis Bullosa Acquisita.