

BARBARA AMBRUS



National Academy of Scientist Education, 4th year

University of Szeged,
Albert Szent-Györgyi Medical School, 4th year

YEAR OF BIRTH

2003

FORMER SZENT-GYÖRGYI PUPIL

no

RESEARCH UNIT

University of Szeged

SZENT-GYÖRGYI MENTOR

Zsuzsanna Bata-Csörgő

JUNIOR MENTOR

Renáta Bozó

SPECIALIZATION

dermatology, psoriasis

SECONDARY SCHOOL

ELTE Apáczai Csere János
Secondary School

NAME OF TEACHER

Judit Bakonyi

LANGUAGES

English/advanced
Italian/advanced

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Psoriasis vulgaris is an immune-mediated, multifactorial, chronic skin disease, which is primarily caused by the hyperproliferation of keratinocytes and the infiltration of immune cells. There are several therapies with a short-term effect but there is no available treatment strategy which could entirely prevent the recurrence/spread of the disease. Psoriasis is characterized by well-demarcated, scaly plaques and uninvolved, healthy-looking skin, referred to as non-lesional (NL) skin. There is now strong evidence that non-lesional (NL) psoriatic skin, despite its normal appearance, represents an intermediate state between healthy and lesional skin. Extracellular matrix could play an important role in maintaining skin in NL condition, and the molecular changes in NL skin is a completely new approach. Thereby the aim of my research is to examine the changes of extracellular matrix and its regulating mechanisms in NL skin, which could be responsible for maintaining the NL phenotype. Proteases and protease inhibitors are known to play a role in the regulation of extracellular matrix components, therefore our aim is to compare the expression of proteases and protease inhibitors in lesional, non-lesional and healthy skin.

AMBITIONS AND CAREER GOALS

As a member of the National Academy of Scientist Education I have the opportunity to experience all the aspects of laboratory work, along with its laborious and pleasurable side, and provides a strong background for my future career as a doctor or a researcher, both academically and socially. My long-term goal is not just to participate in a clinical research, but to come up with own ideas, which humankind could directly benefit from.

HONORS AND PRIZES

- 2020 Richter scholarship
- 2021 New National Excellence Programme scholarship
- 2023 96th Congress of Hungarian Dermatological Society - Experimental Dermatology Section, 1st prize
- 2024 VIATRIS scholarship Silver Prize

PUBLICATIONS

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