BENJÁMIN PASKUJ



YEAR OF BIRTH

2001

FORMER SZENT-GYÖRGYI PUPIL

yes

RESEARCH UNIT

University of Szeged

SZENT-GYÖRGYI MENTOR

István Baczkó

JUNIOR MENTOR

Leila Topal

SPECIALIZATION

cardiac electrophysiology

SECONDARY SCHOOL

Practicing Primary and High School of the University of Szeged

NAME OF TEACHER

lstván Csigér, Krisztina Kesztyűs

LANGUAGES

English/intermediate

National Academy of Scientist Education, 3rd year

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

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

The prevalence of heart failure can reach 10% over the age of 70 so maintaining the performance of the heart is critical. In recent years, several studies have been published on the effect of sodium-glucose cotransporter-2 (SGLT2) inhibitors, such as empagliflozin which was able to reduce the occurrence of cardiovascular mortality and heart failure by almost 25% from the presence of type 2 diabetes mellitus. Although empagliflozin is currently mainly used for the treatment of type 2 diabetes mellitus but based on clinical experience, its beneficial effect justifies experimental laboratory testing of empagliflozin. During the cardiac electrophysiological examination of the pharmacon, we use rabbit right ventricular preparations and the measurements are performed with a standard conventional microelectrode technique. In the future we plan to use patch-clamp technique in order to understand deeper the processes. We will use other animal models and other preparations to correctly interpret the results and fully clarify the effect, if it is necessary.

AMBITIONS AND CAREER GOALS

Since cardiology has been the center of my interest based on my medical studies so far, my primary goal is a deeper understanding of the functioning of heart and the entire cardiovascular system. Through my current research, I will be able to understand a very progressive and complex field of cardiology, (cardiac electrophysiology) starting with the cellular electrical phenomena of the heart. I hope that the experience I gained during this work will contribute to use my knowledge later in both research and patient care for the benefit of patients.

HONORS AND PRIZES

PUBLICATIONS