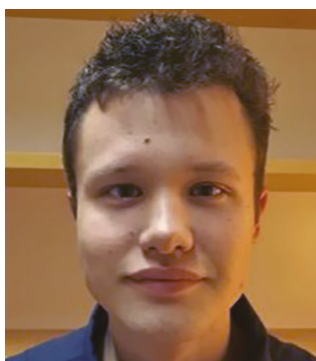


BENDEGÚZ GÁBOR SRAMKÓ



National Academy of Scientist Education, 4th year

Semmelweis University
Faculty of Medicine, 4th year

YEAR OF BIRTH

2002

FORMER SZENT-GYÖRGYI PUPIL

no

RESEARCH UNIT

Semmelweis University

SZENT-GYÖRGYI MENTOR

Karolina Pircs

JUNIOR MENTOR

Anna Zsuzsanna Földes

SPECIALIZATION

neurobiology

SECONDARY SCHOOL

Reformed High School, Tata

NAME OF TEACHER

Erzsébet Éva Nagyné Kristó

LANGUAGES

English/intermediate

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

His research will focus on the isolation and reprogramming of dental pulp stem cells (DPSCs). These neural crest derived mesenchymal stem cells shows an excellent potential for neuronal fate determination. Therefore they may provide a new source of functionally active, direct reprogrammed neurons in vitro. Benedek will collaborate with the Semmelweis University Department of Oral Biology in order of the isolation and characterisation of DPSCs.

AMBITIONS AND CAREER GOALS

I think I have a subjective relationship with biology. To observe and describe a part of life makes me a special joy, a type of enthusiasm. To deal with biology means for me to deal with living systems, which are well describable, and between them, the scientist can observe a logical system, which is the evolution. Most of these proceedings, which are making organisms be able to change their morphological structure and therefore be able to adapt to the varying environment, are manifested firstly in the level of the genes of cells. That's why my interest takes a special look at cells, they are dynamic systems, which can change their metabolism in the order of adaptation. If they aren't able to do that, their function will change inadequately for their physiological job and it can lead to diseases. I think these reasons are enough for a following medical doctor to want to know the world of cells always better and better. The human species interested me always better than everything else in biology, but maybe it is not my only one reason to study medicine. I can't imagine more beautiful cognitive behaviour, than medicine, because it is not just a type of science, it is an altruist behaviour, that helps me to be a useful member of society. I want to be an experienced doctor in science and in humane.

HONORS AND PRIZES

2024 Semmelweis University Students' Scientific Conference, 1st place

PUBLICATIONS

Sramkó, B.,^{1,2} Földes, A.,³ Kádár, K.,³ Varga, G.,³ Zsembergy, Á.,³ Pircs, K. ^{1,2,4} (2023) The Wisdom in Teeth: Neuronal Differentiation of Dental Pulp Cells. *Cell Reprogram* 25(1): 32–44. PMID 36719998