

ANGELIKA BODÓ



National Academy of Scientist Education, 4th year

University of Pécs,
Medical School, 5th year

YEAR OF BIRTH

2001

FORMER SZENT-GYÖRGYI PUPIL

no

RESEARCH UNIT

University of Pécs

SZENT-GYÖRGYI MENTOR

István Hernádi

JUNIOR MENTOR

Zsolt Kristóf Bali

SPECIALIZATION

neurobiology

SECONDARY SCHOOL

Türr István High School and College

NAME OF TEACHER

Gábor Fekete,
Csilla Bostai

LANGUAGES

English/intermediate
German/intermediate

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Examination of ageing and neurocognitive disorders in rodents: identification of preclinical drug development strategies and development of combined performance-enhancing therapies. In neuroscience recently, pharmacological studies are increasingly being replaced by so-called chemogenetic methods, which have the advantage of allowing selective, spatially and temporally defined manipulation of the brain area of interest. In our experiments, we aim to develop such a translational model in rodents and non-human primates using DREADD (Drug Receptors Exclusively Activated by Designer Drugs) technology that reliably represents cognitive impairment related to certain human pathologies, thus providing a significant role both in basic research and in the preclinical investigation of new drug candidates that enhance cognitive performance.

AMBITIONS AND CAREER GOALS

My goal is to develop, through continuous learning and experience, the knowledge base that I will later use to help advance medicine. This is why I would like to pursue a career in research after my medical degree, as I am driven by curiosity and a desire to learn, and I believe that future doctors will need to use innovative diagnostic and therapeutic methods to help their patients. I am particularly keen to promote efforts to treat the now incurable but increasingly problematic neurodegenerative diseases of the soul, such as Alzheimer's, which are a growing problem in our ageing society, and I hope that one day I will find a way to restore the hope of a long, happy and quality life for those affected.

HONORS AND PRIZES

- 2023 University of Pécs, Student's Research Conference, 1st place and Special Award
- 2023 36. OTDK, Medical and Health Section, Special Award
- 2022 I. Romhányi György conference, 1st place
- 2020 University of Pécs, Medical School, Romhányi György College membership
- 2020 Türr István Secondary School, Cum Laude Medal
- 2019 National Secondary School Study Competition, Biology I. category: 1st place
- 2016, 2017, 2018 - Dr. Árokszállás Zoltán Biology Competition: 4th place in category I, 2nd place in category II
- 2018 3rd Semmelweis Health Competition: national final
- 2017 participation in the Association of Hungarian Talent Support Organisations tutor programme

PUBLICATIONS

Kovács, P., Kitka, T., Bali, ZK., Nagy VL., **Bodó, A.**, Kovács-Öller, T., Péterfi, Z., Hernádi, I. (2024) Chemogenetic inhibition of the lateral hypothalamus effectively reduces food intake in rats in a translational proof-of-concept study. **Sci Rep 14:** 1402.