BÁLINT ANTAL



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

Attila Patócs

JUNIOR MENTOR

Henriett Butz

SPECIALIZATION

molecular genetics,
clinical genetics,
oncogenetics

SECONDARY SCHOOL

Austrian School, Budapest

NAME OF TEACHER

Anna Freudenschuss

LANGUAGES

English/intermediate
German/advanced

IMPORTANCE, AIMS AND POSSIBLE OUTCOME OF RESEARCH

Endocrine tumours have the highest hereditary genetic determinants. Therefore, germline genetic testing in such patients is crucial. The setting and validation of diagnostic tests is a fundamental quality assurance issue, as hereditary genetic variations do not change during the lifetime and determine the development of the disease. A reliable result improves the expected outcome of the disease by determining the risk of gene-related cancers, patients can be included in screening tests, and in some cases preventive intervention or targeted treatment is possible. It also allows screening of relatives and family planning. My research aims to apply and validate diagnostic genetic tests and their use in clinical genetic care. The results of the tests will be presented at national and international conferences and a publication is currently in progress.

AMBITIONS AND CAREER GOALS

As a curious person, I've always been interested in how the world works, which led me to want to work as a researcher in the future. I am most interested in genetics because I believe it is the blueprint of living organisms, the key to understanding life and heredity. My goal is to gain a deeper understanding of the world of genetics and to contribute to the advancement of human knowledge in this field. My long-term plans are to continue genetic research and to participate in projects that contribute to solving many health problems.

HONORS AND PRIZES

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PUBLICATIONS

Patócs, A., Nagy, P., Papp, J., Bozsik, A., **Antal, B.**, Grolmusz, V. K., Pócza, T., Butz, H. (2024) Cost-effectiveness of Genetic Testing of Endocrine Tumor Patients Using a Comprehensive Hereditary Cancer Gene Panel. **J Clin Endocrinol Metab 109:** 3220-3233.