

Jakub Szabó, M.A.

Personal info:

Date of birth: 16.08.1996
Place of birth: Zvolen, Slovak republic
Nationality: Slovak
Spoken languages: English (C1), Russian (A2), French (A2)

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Professional curriculum vitae:

Education:

2015 – 2020 M.A., psychology, Faculty of Arts, Comenius University, Bratislava
(Thesis: Sleep quality in relation to everyday paranoia and social anxiety – Experience sampling study. Thesis tutor: prof. Anton Heretik, PhD.; Thesis opponent: PhDr. Michal Hajdúk, PhD.)

2020 - Present PhD., Institute of Molecular Biomedicine, Faculty of Medicine, Comenius university, Bratislava (Thesis: Anxiety and sociability disorder due to neuroinflammation. Thesis tutor: assoc. prof. Peter Celec MD, Dipl Ing., Dr. Rer. Nat., DSc., MPH)

Employment:

2017 – 2020 Assistant researcher, Department of Informatics, Slovak Academy of Sciences, Bratislava

2019 – 2021 Assistant researcher, ESET, Co., Bratislava

Internship:

- 2015 – 2017 Social services, rehabilitation establishment and psychiatric center
Samária, Bratislava
- 2017 – 2018 Department of Experimental Psychology, Slovak Academy of Sciences,
Bratislava
- 2019 Psychiatry Department, University hospital Staré Mesto, Faculty of
Medicine and Comenius University, Bratislava
- 2019 Department of Child Psychiatry, Faculty of Medicine and National
Institute of Pediatric Diseases, Bratislava
- 2022 – 2023 New York University, Langone Health, Neurology Department, New
York, NY, USA

Conferences and workshops:

- 2021 XVI. Student Scientific Conference (ŠVOČ), Medical faculty, Comenius
University, Bratislava, Slovakia
- 2021 VII. Slovak Neuropsychiatric Congress, Tatranská Lomnica, Slovakia
- 2022 97. Physiological Days, Prague, Czech republic
- 2023 XVII. Student Scientific Conference (ŠVOČ), Medical faculty, Comenius
University, Bratislava, Slovakia
- 2023 30th European Congress on Obesity (ECO2023), Dublin, Ireland
- 2023 VIII. Slovak Neuropsychiatric Congress, Tatranská Lomnica, Slovakia
- 2023 COST Action, Advanced Training School on Home-Cage Monitoring,
Instituto de Investigação e Inovação em Saúde, Porto University, Porto,
Portugal

2023 Alzheimer's Association International Conference 2023 (AAIC23),
Amsterdam, Netherlands

Grants

2022 – 2023 Comenius University grant for Young Scientists – Principal investigator

2021 – 2024 APVV-20-0114 – Investigator

2021 – 2024 APVV-20-0185 – Investigator

Skills and abilities

- Descriptive & inferential statistics, predictive multivariate models
- Psychometric methodology including contextual sampling (Experience sampling method)
- Biofeedback methodology – Galvanic skin response, Electrocardiogram
- Animal behavioral methodology (mouse, rat, non-human primate) including long-term data sampling & neurodevelopmental testing
- Intranasal, intraperitoneal, subcutaneous & gavage substance administration (mouse, rat)
- Tail & retro-orbital blood collection (mouse, rat)
- Gonadectomy (mouse, rat)
- Vaginal lavage (mouse, rat)
- Brain & brain region dissection (mouse, rat)
- Transcardial perfusion (mouse, rat)
- Genotyping (EP-PCR, gel electrophoresis)
- Enzyme-linked immunosorbent assay (ELISA)
- Cell-free/Extracellular DNA isolation
- Bacterial cultures
- Venous blood sampling in humans
- MRI post-processing (ITK-Snap, MRTrix, Firevoxel, Automated Normalization Tools, Convert3D GUI)

Ongoing/finished research projects

- Long-term neuroimmunological consequences of sepsis
- Neuromorphological changes of rat brain after cafeteria diet-induced Metabolic syndrome
- Brain neuromorphological changes of young patients suffering from Anorexia Nervosa
- Behavioral and neuromorphological consequences of Paracetamol-induced liver failure
- Autism-like phenotype across the lifespan of *Shank3* mutant mice
- The effect of neonatal testosterone excess on autistic-like behavior in a genetic mouse model of Autism spectrum disorder
- Intranasal oxytocin in a genetic mouse model of Autism spectrum disorder
- Neuromotor development in *Shank3* mouse model of Autism spectrum disorder
- Sex-specific microbiome and gene interactions in the pathogenesis of behavioral and gastrointestinal symptoms in the animal model of Autism spectrum disorder
- Behavioral and inflammatory consequences following the induction of Traumatic brain injury in *PAD4*^{-/-} mice
- Social processes in Autism and Schizophrenia – A Research Domain Criteria Initiative
- StressDat – Database of speech under stress in Slovak
- Everyday paranoia and social anxiety during COVID-19 pandemic
- Development of neuroimaging biomarkers in non-human primate model of sporadic Alzheimer's disease pathology
- Evaluation of biomarker, behavioral, and immunostimulatory profiles following treatment with Class C CpG ODN in a non-human primate model of sporadic CAA
- In vivo Volumetric, DTI and 1 H MRS Rat Brain Protocol for Monitoring Early Neurodegeneration and Efficacy of the Used Therapy