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Language: Hungarian, English



WORK EXPERIENCE

January 2022 – Present: HUN-REN BIOLOGICAL RESEARCH CENTRE, Szeged

January 2023 – Present: Research Assistant (Laboratory of Metabolomics)

January 2022 – January 2023: Laboratory Assistant (Laboratory of Metabolomics)

July 2020 – January 2022: HUN-REN BIOLOGICAL RESEARCH CENTRE, Szeged

Laboratory Assistant (Balázs Papp's laboratory)

EDUCATION

April 2024: UNIVERSITY OF GRANADA, Granada, Spain

Special Education: European School for Metabolomics (EUSM2024)

There were workshops about mass spectrometry, publishing and PhD life management, as well as lectures on NMR, fluxomics, data processing, compound annotation and single cell metabolomics.

2021-2023: UNIVERSITY OF SZEGED, Szeged, Hungary

MSc in Food Safety and Quality Engineering

Final Year Research Thesis:

Title: *Profiling of linseed oil via LC-MS.*

The aim of my dissertation was to investigate the structural characterization of cyclic linopeptides present in commercial and freshly pressed linseed oils.

2017-2021: UNIVERSITY OF SZEGED, Szeged, Hungary

BSc in Food Engineering

Final Year Research Thesis:

Title: *Comparison analysis of natural and artificial sweeteners.*

AWARDS

2023: University of Szeged Faculty of Engineering “Pro Facultate Student Award”

2022: National Higher Education Excellence Student Scholarship

PUBLICATIONS

R. Tengölics, B. Szappanos, M. Mülleder, D. Kalapis, G. Grézal, **C. Sajben**, F. Agostini, J.B. Mokochinski, B. Bálint, L.G. Nagy, M. Ralser, & B. Papp, The metabolic domestication syndrome of budding yeast, *Proc. Natl. Acad. Sci. U.S.A.* 121 (11) e2313354121, <https://doi.org/10.1073/pnas.2313354121> (2024).

Nagybanyai-Nagy B, Tengölics R, **Sajben C**, Olasz D, Schwarcz A, Molnar T and Csecsei P (2026) Serum microbiome-related metabolites—including short-chain fatty acids and indole derivatives—predict outcome and delayed cerebral ischemia after aneurysmal subarachnoid hemorrhage: a two-timepoint LC–MS study. *Front. Neurol.* 17:1768108. doi: 10.3389/fneur.2026.1768108

Szecsó, A., Párdi, K., Cui, Z., Porkoláb, G., Hoyk, Z., Kovács, C., Adegbite, J. F., Fodor, V., Cser, N. M., Dér, L., Nagy, K., **Sajben, C.**, Tengölics, R., Deli, M. A., & Veszélka, S. (2026). The histone deacetylase inhibitor, suberoylanilide hydroxamic acid, restores blood–brain barrier integrity in a human stem cell-based model of ischaemic stroke. *British Journal of Pharmacology*, 1–22. <https://doi.org/10.1111/bph.70568>