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Language: Hungarian, English



WORK EXPERIENCE

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

Head of Laboratory (Laboratory of Metabolomics)

June 2025 – October 2025: CENTER FOR MOLECULAR FINGERPRINTING, Budapest

Multimomics Laboratory Manager

May 2019: CHARITÉ – UNIVERSITÄTSMEDIZIN BERLIN, Berlin

Guest Scientist

June 2017: FRANCIS CRICK INSTITUTE, London

Guest Scientist

January 2016 – December 2021: HUN-REN BIOLOGICAL RESEARCH CENTRE, Szeged

Postdoctoral Researcher (Balázs Papp's laboratory)

December 2014 – December 2015: UNIVERSITY OF SZEGED, Szeged

Postdoctoral Scientist (Department of Biotechnology)

September 2014 – November 2014: ERNST-MORITZ-ARNDT-UNIVERSITÄT GREIFSWALD, Greifswald

Guest Scientist

EDUCATION

2009-2014: UNIVERSITY OF SZEGED, Szeged, Hungary

PhD in Molecular Biotechnology

Thesis:

Title: *Connection between sulfur metabolism and hydrogenases in a purple sulfur bacterium.*

Conducted advanced experimental work in microbial physiology, with using various analytical techniques.

2004-2009: UNIVERSITY OF SZEGED, Szeged, Hungary

MSc in Biology

Specialized in molecular biology and microbial metabolism.

RESEARCH GRANTS

2019-2024: NKFIH – KKP - 250 MHUF (ASSOCIATED SCIENTIST, 129814)

2018-2022: NKFIH – PD OTKA - 15.8 MHUF (LEAD SCIENTIST, 128271)

PUBLICATIONS

R. Tengölcs, B. Szappanos, M. Mülleider, D. Kalapis, G. Gréza, 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).

Dávid Tóth, **Roland Tengölcs**, Fayeze Aarabi, Anna Karlsson, André Vidal-Meireles, László Kovács, Soujanya Kuntam, Tímea Körmöczi, Alisdair R Fernie, Elton P Hudson, Balázs Papp, Szilvia Z Tóth, Chloroplastic ascorbate modifies plant metabolism and may act as a metabolite signal regardless of oxidative stress, *Plant Physiology*, Volume 196, Issue 2, October 2024, Pages 1691–1711, <https://doi.org/10.1093/plphys/kiae409>

Szecskó, 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>