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RESEARCH AREA

The domestication of Saccharomyces yeasts, their macro- and microevolution, especially in the case of clades infecting and colonizing humans, with the use of genomics and experimental evolution.

TECHNIQUES AVAILABLE IN THE LAB

Genomics, Illumina, Oxford Nanopre, experimentla evolution, phenotyping, virulence factors.

SELECTED PUBLICATIONS

Imre, A., Kovács, R., Pázmándi, K., Nemes, D., Jakab, Á., Fekete, T., Rácz, H. V., Dóczi, I., Bácskay, I., Gácser, A., Kovács, K., Majoros, L., Farkas, Z., Pócsi, I., **Pfliegler, P. W.** (2021) Virulence factors and in-host selection on phenotypes in infectious probiotic yeast isolates (Saccharomyces 'boulardii'). **Journal of Fungi 7:** 746.

Rácz, H.V., Mukhtar, F., Imre, A., Rádai, Z., Gombert, A.K., Rátonyi, T., Nagy, J., Pócsi, I., **Pfliegler, W.P.** (2021) How to characterize a strain? Clonal heterogeneity in industrial Saccharomyces influences both phenotypes and heterogeneity in phenotypes. **Yeast 38:** 453-470.

Imre, A., Rácz, H.V., Antunovics, Zs., Rádai, Z., Kovács, R., Lopandic, K., Pócsi, I., **Pfliegler, W. P.** (2019): A new, rapid multiplex PCR method identifies frequent probiotic origin among clinical Saccharomyces isolates. **Microbiological Research 277:** 126298.

Pfliegler, W. P., Boros, E., Pázmándi, K., Jakab, Á., Zsuga, I., Kovács, R., Urbán, E., Antunovics, Zs., Bácsi, A., Sipiczki, M., Majoros, L., Pócsi, I. (2017) Commercial strain-derived clinical Saccharomyces cerevisiae can evolve new phenotypes without higher pathogenicity. **Molecular Nutrition & Food Research 61:** 1601099.