

University of South Bohemia in České Budějovice,
Faculty of Science
Department of Ecosystem Biology

Supervisor review

Title: Effect of different water regime on microorganisms of nitrogen cycle in permafrost

Author: Sára Turková

The thesis of Sára is part of the international project focused on arctic permafrost soil and specifically on microbial communities, which play crucial roles in biological processes in these specific ecosystems (mainly in N cycle). During the arctic expedition in 2019 we collected unique permafrost samples from different sites of permafrost degradation and started to understand what kinds of microorganisms live in permafrost. We were also able for the first time obtain RNA to study active microorganisms.

Sára soon became involved in qPCR analyses of selected genes. She mastered basic molecular biology techniques and regularly consulted her results. She also quickly mastered working with the literature, searching for relevant articles on her own. She is very proficient in R, in which she performed a number of advanced statistical analyses focusing on the composition of microbial communities, which tend to be part of master theses but usually not part of the bachelor thesis. I was very pleased with Sara's work throughout, and I dare say that Sara was one of the best bachelor students I have supervised.

I gladly recommend her work for the defense of bachelor thesis.

In České Budějovice, 15.6.2022

Supervisor: Jiří Bárta

A handwritten signature in blue ink, consisting of a stylized 'J' and 'B' followed by a horizontal line.