

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

Supervisor review

Title: Testing of different quality filtering algorithms on contig quality in plant transcriptome

Author: Laura Kroll

The thesis of Laura is part of our project focused on aquatic carnivorous plants from which we received RNA from different tissues with the collaboration of Helena Štorchová from Institute of Experimental Botany of Czech Academy of Sciences.

The number of bioinformatic tools which are available for end users are rapidly increasing. The crucial step in good transcriptome assembly is to test the different assemblies but also different quality filtering algorithms. This was the main task of Laura who obtained several fastq files for this purpose. These files were from different tissues of *Utricularia vulgaris* and these files had also different quality and quantity of the reads.

Laura obtained raw sequencing data and started to test several quality filtering algorithms and pipelines to get the best assembly. She worked from the very beginning very precisely and almost independently. She very quickly learned how to set up several assemblers and test their advantages and disadvantages. We regularly consulted the progress of the data processing and writing of the thesis.

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

In České Budějovice, 10. 7. 2020

Supervisor: Jiří Bárta