



Comenius University in Bratislava  
Faculty of Mathematics, Physics and Informatics

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## THESIS ASSIGNMENT

**Name and Surname:** Michaela Šandalová  
**Study programme:** Bioinformatics (Joint degree study, bachelor I. deg., full time form)  
**Field of Study:** Computer Science, Informatics  
Biology  
**Type of Thesis:** Bachelor's thesis  
**Language of Thesis:** English  
**Secondary language:** Slovak

**Title:** Computational Design of Probes for the Hyb-Seq Protocol

**Aim:** The goal of the thesis is to design probes for the Hyb-Seq protocol for Alyssum genus based on raw sequencing data. The starting point is an existing software pipeline called Sondovač (<https://github.com/V-Z/sondovac>). The goal is to explore and describe methods used in this tool, propose and test appropriate parameter settings and potentially propose improvements of the pipeline.

**Supervisor:** Mgr. Matúš Kempa  
**Department:** FMFI.KI - Department of Computer Science  
**Head of department:** prof. RNDr. Martin Škoviera, PhD.

**Assigned:** 26.10.2016

**Approved:** 26.10.2016 doc. Mgr. Bronislava Brejová, PhD.  
Guarantor of Study Programme

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Student

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Supervisor