



Comenius University in Bratislava
Faculty of Mathematics, Physics and Informatics

THESIS ASSIGNMENT

Name and Surname: Andrej Korman
Study programme: Computer Science (Single degree study, bachelor I. deg., full time form)
Field of Study: Computer Science
Type of Thesis: Bachelor's thesis
Language of Thesis: English
Secondary language: Slovak

Title: Data Structures for Selective Sequencing

Annotation: MinION sequencing technology allows on-line rejection of molecules that are sequenced. However, the base calling process (translation of the raw sequencing signals to DNA bases) is too slow to perform on-the-fly. The goal of this thesis is to develop an indexing scheme and data structures that would allow fast identification of individual molecules based on raw signals instead of the corresponding DNA sequences.

Supervisor: doc. Mgr. Tomáš Vinař, PhD.
Department: FMFI.KAI - Department of Applied Informatics
Head of department: prof. Ing. Igor Farkaš, Dr.

Assigned: 30.10.2019

Approved: 30.10.2019 doc. RNDr. Daniel Olejár, PhD.
Guarantor of Study Programme

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Student

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Supervisor