

CZECH REPUBLIC

University: **UNIVERSITY OF SOUTH BOHEMIA IN ČESKÉ BUDĚJOVICE**
Faculty: **Faculty of Science**

Academic Year: **2022/2023**

Personal Number: **B17561**

A RECORD

of the Final State Examination

First name, surname, degree: **Tihana VONDRAK**

Date of birth: **November 29, 1993**

Place of birth: **Zagreb**

Degree programme: **P1515 - Molecular and Cell Biology**

Degree course: **1515V009 - Molecular and Cell Biology and Genetics**

PhD thesis title: **Analysis of repeat-rich regions of plant genomes using long read sequencing technologies**

PhD thesis Supervisor: **RNDr. Jiří Macas, Ph.D.**

PhD thesis supervisor: **RNDr. Jiří Macas, Ph.D.**

PhD thesis assigned on: **September 24, 2018**

Date of PhD thesis submission: **July 11, 2022**

Attachments are (cross out non-applicable): 1. Assignment of PhD thesis
2. Supervisor's statement of the thesis
3. Opponent's review of the thesis

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responsible for completeness

Course of the defence:

Tihana Vondrak PhD defence, 15th September 2022

"Analysis of repeat-rich regions of plant genomes using long-read sequencing technologies"

Ph.D. mentor: RNDr. Jiri Macas, Ph.D., committee: prof. RNDr. Frantisek Marec, CSc. (head), doc. David Kopecky, Ph.D., RNDr. Petr Nguyen, Ph.D., Mgr. Iva Mozgova, Ph.D., opponents: Mgr. Eva Hribova, Ph.D., Univ. Prof. Mag. Dr. Hanna Schneeweiss.

The mentor read Ph.D. candidate evaluation. The Ph.D. candidate presented their project in time limit 30 minutes.

The opponents read their reviews and they expressed their great satisfaction with the quality of the thesis. The Ph.D. candidate discussed the questions with the opponents.

Q: Are the centromeric regions from the holocentric chromosomes recombining?

Q: Is there any tool to de novo recognize tandem repeats in the Nanopore reads?

Q: What is the general error rate for the Oxford Nanopore reads?

The head of the committee opened the discussion from the committee.

Q: Is there any relationship between chromosome number/size and recombination rate?

Q: How do you know certain region has centromeric activity?

Q: Do the short arrays have higher rate of truncation?

Q: Did you identify some satellites which can be used as a markers to distinguish certain in plants?

The Ph.D. candidate answered all the questions and the committee was satisfied with the discussion.

All committee members including opponents, voted in presence:

6 votes polled, 6 votes valid, 6 votes passed, 0 votes failed

Score:

Assessment: **excellent**

Date of defence: **September 15, 2022**

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committee chairman

Assessment of the final state examination:

PhD thesis state examination

date **September 15, 2022** assessment **excellent**

Overall assessment of the final state exam:

Overall study result:

In accordance with Act No. 111/1998 Coll., on Higher Education Institutions and on Alterations and Amendments to other Acts (Higher Education Act), the student has successfully completed higher education in

Degree programme:

P1515 - Molecular and Cell Biology

Degree course:

1515V009 - Molecular and Cell Biology and Genetics

In České Budějovice, on September 15, 2022

Examination board members:

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Committee chairman