

## EVALUATION REPORT OF THE TUTOR

Student: Marc Finianos, MSc.

Tutor: Ibrahim Bitar, Ph.D.

### Evaluation:

Marc Finianos joined the Ph.D. study at the Faculty of Medicine in Pilsen, Charles University, in the academic year 2021/2022. Before that, he studied for a bachelor's and master's degree at the Lebanese University, Beirut, Lebanon. He graduated in Human Molecular Diagnostics. For a long time, he has dealt with bioinformatic analysis of data obtained from whole-genome sequencing in connection with the molecular-epidemiological description of Gram-negative bacteria resistant to antibiotics. He is the author/co-author of 13 publications published in IF journals, 12 above the field median (Q1, Q2). These publications have been cited 53 times. Marc Finianos' H-index is 4.

In his dissertation, Marc Finianos deals with the genomics of multidrug-resistant Gram-negative bacteria. The work is an annotated compilation of 4 of the most important publications in which Marc participated intensively. The first 40 pages are devoted to the theoretical introduction, which describes the most important mechanisms of resistance to beta-lactam antibiotics and host organisms from the order Enterobacterales. The discussion and conclusion are processed on ten pages. The thesis is written in a readable form and contains recent references.

Marc Finianos also completed an internship at the Statens Serum Institut, Copenhagen, Denmark. Here, under the guidance of Dr. Henrik Hasman dealt with the design of a pipeline for analyzing data from whole-genome sequencing with the Oxford Nanopore sequencing technology. This internship was evaluated as very successful.

Based on the above facts, I am pleased to recommend Marc Finianos' dissertation for defense.

In Pilsen, 25. 9. 2024



Ibrahim Bitar, Ph.D.