



BIOLOGY CENTRE CAS

Institute of Parasitology

address: Branišovská 1160/31, 370 05 České Budějovice, Czech Republic

IBAN – CZ24 0800 0000 0000 0606 3942 | SWIFT CODE – GIBACZPX | VAT No.: CZ60077344

phone: +420 387 775 403 | fax: +420 385 310 388 | www.paru.cas.cz | e-mail: paru@paru.cas.cz

Supervisor's statement

MCs Thesis: "The role of queuosine tRNA modification during codon biased translation in *Leishmania mexicana*" by Bc. Monika Švabová, University of South Bohemia, Faculty of Science, České Budějovice, 2022

The goal of Monika's thesis was to standardize several molecular biology techniques to study the role of queuosine tRNA modification during translation in *Leishmania mexicana*. Our lab is working mainly with *Trypanosoma brucei* and thus Monika had to deal with a new model organism. She took on the challenge of establishing state-of-art techniques such as polysome and ribosome profiling for *Leishmania*, which allows us to monitor translation *in situ* with codon resolution.

These are very demanding and time-consuming techniques and Monika was able to make a significant contribution towards their standardization, which will be useful for the lab in the future.

Monika proved to be a very hardworking student with attention to experimental details. She was a quick learner and good at record keeping. Although she is very quiet, she got on well with her colleagues.

I would like to point out here that she showed remarkable courage in writing her thesis in English, as this is her first scientific text in English. Although her writing is not perfect it has to be acknowledged that she made a very good effort.

At this point I also would like to thank Sneha Kulkarni, who was Monika's co-supervisor and was responsible for most of the day-to-day supervision.

Based on the plethora of experimental methods used, Monika has most certainly acquired all the essential skills needed to continue her future career in Natural Sciences and I am glad that she has decided to continue working in my lab to finish some of the experiments.

In conclusion, I was happy to have Monika Švabová in my laboratory and my recommendation is to grant her the master degree.

In České Budějovice, 26.05.2022

RNDr. Zdeněk Paris, PhD.