



FACULTY OF SCIENCE
Charles University

Report on defence of dissertation thesis

Academic year: 2023/2024

Student's name and surname: Ivalú Macarena Ávila Herrera, M.Sc.
Student's ID: 59480557

Type of the study programme: doctoral
Study programme: Molecular and Cellular Biology, Genetics and Virology
Study ID: 717625

Title of the thesis: Evolution of karyotype in selected groups of haplogyne and mygalomorph spiders
Thesis department: Department of Genetics and Microbiology (1400)
Language of the thesis: English
Language of defence: English
Supervisor: doc. RNDr. Jiří Král, CSc.
Reviewer(s): prof. Dr. Liliana María Mola, Ph.D.
RNDr. Roman Hobza, Ph.D.

Date of defence: 09.09.2024 **Venue of defence:** Praha
Attempt: regular

Course of the examination: At the start of the defense, the chair of the committee briefly introduced the academic and scientific career of the defendant. The defendant then presented the main points of her doctoral thesis, particularly her experiments, their most important results and the conclusions she made based on these results. Her presentation took approx. 17 min. The supervisor then positively commented about student's work in his Laboratory. The reviews of the thesis then followed; Prof. Mola was present online, Dr. Hobza was present personally at the defense. Both reviewers positively evaluated the thesis and the defendant's work on it and on the associated papers in scientific journals. There was a comment in the general discussion about the presentation, which should include more general aims of the thesis and its hypotheses, as well as a better conclusion. There were also some more specific questions about the experimental work (evolution of sex chromosomes by aneuploidy and the ways to prove it, the oligo-painting probes, the data on the "lost" Y chromosome, etc.) - some lengthy discussion about some aspects of the sex chromosome and holocentric chromosome topics occurred. The final part of the defense was the closed session and voting by the committee, the members of which recommended the defendant to be awarded the Ph.D. degree.

Result of defence:	pass (P)	
Chair of the board:	Holá Dana, doc. RNDr., Ph.D. (present)
Committee members:	Dolejš Petr, RNDr., Ph.D. (present)
	Kratochvíl Lukáš, prof. Mgr., Ph.D. (present)
	Sember Alexandr, Mgr., Ph.D. (present)
	Zemanová Zuzana, doc. RNDr., CSc. (present)