



Přírodovědecká
fakulta
Faculty
of Science

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice

STATEMENT OF THE BACHELOR/DIPLOMA^{*} THESIS SUPERVISOR

Name of the student: D.M. Sewmi M Abayagunawardana

Study program: Biological Chemistry

Department/Institute: Department of of Parasitology, Faculty of Science

Thesis title: Isolation and molecular characterization of the histone methyltransferase EHMT from the soft tick *Ornithodoros moubata*

Supervisor: Alejandro Cabezas-Cruz Ph.D.

Co-Supervisor: Ryan O. M. Rego, Ph.D.

Supervisor's affiliation: Institute of Parasitology, BC ASCR and Faculty of Science, University of South Bohemia

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	
Ability to work with literature	0-3	
Language and stylistics	0-3	
Formal requirements – points in total		
(2) PRACTICAL REQUIREMENTS		
Fulfillment of the aims	0-3	
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	
Discussion quality – interpretation of results and their discussion with the literature	0-3	
Experimental difficulty of the thesis, independence in experimental work	0-3	
Contribution of the thesis to the knowledge in the field and the possibility to publish the results (after eventual supplementary experiments)	0-3	
Practical requirements – points in total		
POINTS IN TOTAL (MAX/AWARDED)		
	24	

^{*} Choose one

¹ Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

Comments of the supervisor on the student and the thesis:

Histone modifications by histone modifying enzymes (HMEs) is one of the best characterized epigenetic mechanisms in model organisms. Little is known about tick epigenetics. One first step toward increasing our understanding of tick epigenetics could be the characterization of tick HMEs. Sewmi was given the task of the molecular characterization of a histone methyltransferase from the soft tick *Ornithodoros moubata*. The thesis was a straightforward project where the student needed to use standard molecular biology tools to amplify, clone and perform sequence analyses of the euchromatic histone-lysine N-methyltransferase (EHMT) homolog in *O. moubata*. At the beginning of the project, Sewmi had little background on molecular biology theory or techniques. During the project, the student mastered PCR, DNA electrophoresis, cloning and sequence analyses including BLAST, alignment, phylogenetic analysis and 3D protein modeling. The objectives set at the beginning of the project were completed in the expected timeframe. This credits the perseverance of the student to achieve the goals of the project.

Conclusion:

In conclusion, I
~~recommend / do not recommend~~* the theses for the
defense .

In Paris , France date 12/1/2018


..... [Ryan Rego]
signature
on behalf of
Dr. Cabesas-Cruz