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V Praze dne 28. 12. 2023

Supervisor's opinion on the defense of the dissertation.

Student: Joana Isabel Do Carmo Silva

Field of study: Experimental surgery.

Supervisor: doc. MUDr. Štěpán Veselý, Ph.D.

Title: **Diagnostic and prognostic ability of selected markers of prostate cancer in the serum and urine**

Dr. Joana Do Carmo has created her dissertation during her stay at the Urology Clinic of the 2nd Faculty of Medicine of the Charles University in Prague in Motol, where she worked between 2015 and 2019 as a physician. She was involved in the MD - Ph.D. program and even after her departure to her native country Portugal, she continued on her scientific projects. She published and presented the results at domestic and international congresses.

It should be mentioned that the interest of Dr. Do Carmo in current scientific topics with an overlap into clinical medicine was evident from the very beginning of her work at our department. She quickly demonstrated that she is capable of independent scientific thinking, planning and creative problem solving. During her studies, she focused on all the aspects of scientific activity, including - data collection and analysis, surgical treatment of uro-oncological patients with the collection of biological samples, long-term follow-up of patients after the treatment, systematic creation of a bank of frozen biological material, independent management of the samples and their laboratory analyses, presentation and publication of relevant scientific results with the ability of an adequate professional discussion. The conclusions included in the presented dissertation undoubtedly enrich the knowledge of the biological behavior of prostate cancer and the use of oncomarkers in daily clinical practice. Both in the detection of the cancer itself, as well as in the evaluation of the success of the treatment strategy and the difficult decision process about the need for further intervention.

An important proof of the level of the student's work is the list of published scientific works in journals with an impact factor that far exceeds the limit for completing a Ph.D. studies. This only proves the student's real interest in scientific work, and at the same time it is also a credible promise of her further scientific career.

Based on the above, I am convinced that after a successful defense of the dissertation, it is completely justified for Dr. Do Carmo to be awarded the scientific degree Ph.D.

Best regards

doc. MUDr. Štěpán Veselý, Ph.D.
deputy head of the Urology clinic
2nd School of Medicine, Charles University, Prague