

Masaryk University	
Faculty	Faculty of Medicine
Procedure field	Oncology
Applicant	MUDr. Barbora Weinbergerová, Ph.D.
Applicant's home unit, institution	Faculty of Medicine, Masaryk University
Habilitation thesis	Invasive fungal diseases and COVID-19 in hematological patients – early diagnosis and treatment
<u>Board members</u>	
Chair	prof. MUDr. Miroslav Penka, CSc. <i>Faculty of Medicine, Masaryk University</i>
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Evaluation of the applicant's scholarly/artistic qualifications

Barbora Weinbergerova, MD, Ph.D., graduated the Faculty of Medicine of Masaryk University in Brno, Czech Republic (study program: General Medicine) in 2001. After her graduation, she started her career at the Department of Internal Medicine-Hematology and Oncology, Masaryk University and University Hospital Brno, Czech Republic, where she has been working until now, currently as the senior consultant and the chief consultant of the Group for Opportunistic Infections. She successfully completed her specialization in Internal Medicine (2004), and Hematology and Blood Banking (2007). In 2021 she successfully defended her doctoral thesis focusing on the non-culture-based methods utilization to optimize the diagnosis of invasive fungal diseases from bronchoalveolar lavage fluid in immunocompromised patients and obtained the PhD title.

Dr. Weinbergerova (nee Wagnerova) has an impressive publication record of more than 40 peer-reviewed articles listed in the NIH National Library of Medicine (PubMed). Among her relatively rich publishing activities, she is the author or co-author of 32 articles published in impacted journals (cumulative IF 154,152). She is listed 4 times as the first or corresponding author (2 times in Q1 journals, 4 times in journal with IF above the median of WoS category). She is the author of the chapter Serological Approaches as a part of monography Human Fungal Pathogen Identification: Methods and Protocols with international impact. Her research carrier is supported by 412 citations in WoS and H-index 10. Dr. Weinbergerova was a member of research team of 1 national grant supported by IGA. The applicant is currently the main national project coordinator of many international projects – FIND, EPICOVIDEHA, MIND and DATOOL-AML.

From aforementioned, it is clear that Dr. Weinbergerova is experienced researcher with evidenced impact on science in the field of Hematology, Oncology, and Infections in Immunocompromised Patients.

Conclusion: The applicant's scholarly/artistic capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Oncology.

Evaluation of the applicant's pedagogical experience

Barbora Weinbergerova, MD, Ph.D., started her teaching activity in 2015 as an assistant at Department of Internal Medicine-Hematology and Oncology, Faculty of Medicine, Masaryk University and University Hospital Brno. She regularly teaches class exercises in Internal Medicine, and Clinical Oncology / Internal Medicine lectures both in Czech and English. She successfully supervised 2 Master's thesis. In addition, her teaching activity is supported by 12 comprehensive textbooks.

Conclusion: The applicant's pedagogical capabilities **meet** the requirements expected of applicants participating in a habilitation appointment procedure in the field of Oncology.

Habilitation thesis evaluation

The habilitation thesis "Invasive Fungal Diseases and COVID-19 in Hematological Patients-Early Diagnostic and Therapy" is written as a collection of 29 previously published scholarly works (22 journal papers and 7 book chapters) with commentary in a very good English. Dr. Weinbergerova focused on two thematic areas, specifically on opportunistic infections, especially invasive fungal diseases, and COVID-19 in immunocompromised patients. The introduction of the thesis contains general overview of the state of the art in the field of infections in immunocompromised patients together with all specifics in this group, accompanied by 11 applicant's published original articles or book chapters. The general overview is followed by topics concerning azole plasma levels monitoring, invasive aspergillosis data analysis, non-culture-based methods – galactomannan, 1,3-beta-D-glucan, PCR – optimization in invasive fungal diseases diagnosis, evidenced by 12

original articles with applicant in the role of author or co-author. The last part of the thesis describes COVID-19 issue in hematologic patients in total of 6 original articles crediting the applicant as author or co-author. All 29 articles or book chapters listed in the thesis are introduced by commentary and summarized by their major findings. The topicality of infectious complications in immunocompromised patients is high, moreover it currently rises also in relation to COVID-19 pandemic. The committee board would like to emphasize that most of the articles listed in the thesis were published in prestigious journals.

The habilitation thesis was reviewed by three respected experts in the field of immunocompromised patients with hematological malignancy. All reviewers agreed that the habilitation thesis of Dr. Weinbergerova presents new knowledge in the field of Invasive Fungal Diseases and COVID-19 in Hematological Patients - Early Diagnostic and Therapy and has a good scientific potential. The opponents also highly evaluated concise and precise formal and language level of the habilitation thesis. Based on all the three reviews, the presented habilitation thesis meets the standard requirements for habilitation theses in the field of Oncology at the Faculty of Medicine, Masaryk University.

Conclusion: The applicant's habilitation thesis **meet** the requirements expected of habilitation theses in the field of Oncology.

Secret vote results

Voting took place: electronically

Number of board members		5
Number of votes cast		5
of which	in favour	5
	against	0

Board decision

Based on the outcome of the secret vote and following an evaluation of the applicant's scholarly or artistic qualifications, pedagogical experience and habilitation thesis, the board hereby submits a proposal to the Scientific Board of the Faculty of Medicine of Masaryk University to **appoint the applicant associate professor** of Oncology.

In Brno on 15.12.2022

prof. MUDr. Miroslav Penka, CSc.

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