

To the Chairman of the Scientific Jury,
appointed by order No. P-109-269/25.05.2023
of the Rector of the Medical University of Varna

PEER REVIEW

by Prof. Zhaneta Georgieva Tyaneva, MD, PhD

Medical University of Varna

Regarding: competition for holding the academic position "Professor" in the field of higher education: 7. Healthcare and Sports, professional field: 7.1. Medicine, scientific specialty: Cardiology, for the needs of ES of Cardiology, First Department of Internal Medicine, Faculty of Medicine, Medical University of Varna and First Clinic of Cardiology, University Hospital St. Marina, Varna, published in SG 28/28.03.2023. Additional conditions: the requirement of Art. 137, paragraph 1, item 6, from the Regulations for the Development of Academic Staff of MUV are not to be applied and the sum of the points for indicator group E for the field of higher education: 7. Healthcare and Sports is to be 100, without the requirement ≥ 80 points for indicator 14.

By decision of the Scientific Jury, Protocol No. 1/08.06.2023, I was appointed to present a review regarding this competition. One candidate submitted documents for the competition: **Assoc. Prof. Mariya Negrinova Negreva, MD, PhD, DSc** (later in document – MN), Associate Professor at the First Clinic of Cardiology, University Hospital St. Marina, Varna (SMV) and Head of ES of Cardiology at the First Department of Internal Medicine, Faculty of Medicine, Medical University of Varna (MUV). The candidate has presented all required documents in accordance with the Law for the Development of Academic Staff in Bulgaria, Regulations for its implementation, and the Regulations for the Development of Academic Staff (RDAS) of the MUV.

Biographical data and career development

She enrolled as an independent doctoral student in cardiology at the Department of Internal Medicine, MUV in the same year with dissertation the title: "Dynamics of oxidative stress in patients with paroxysmal atrial fibrillation". She was awarded the degree "Doctor" (2015), and "Doctor of Sciences" (2022) in the specialty of Cardiology.

Ca' Granda, Milan, Italy (2007) and Universitätsklinikum Augsburg, Germany under the

I. Research output

- habilitation monograph with title "Platelets: fundamental and clinical projections";
- Total impact factor of 79.913, (3.577 from full-text articles after the degree "Doctor of");

Group of indicators	Съдържание		Presented by candidate
A	Dissertation for degree "Doctor"		
B	Dissertation for degree "Doctor of Sciences"	Not required	
V	Habilitation monograph		
G	Indexed in WOS/Scopus	(≥ 80 from	from
	Other publications		
D	Citations		
E (without the requirement ≥ 80 pts from indicator 14)			

ly significant systemic hypercoagulability during short (≤ 24 hours) episodes of paroxysmal atrial nced platelet activity in the same group of patients was demonstrated by elevated plasma levels of β -TG and TF-4 (Publication No. 4, indicator G7).

Contributions related to the study of application of mathematical methods for analysis of cardiac data (Publication No. 2, Indicator G7; Publication No. 5, Indicator G8)

Heart rate variability analysis from a Holter-ECG recording using the Poincaré plot method (SD1) and Detrended Fluctuation Analysis (α_2 and α_{all}) has been shown to have excellent diagnostic value for supraventricular extrasystoles (Publication No. 2, Indicator G7), as well as possibility of distinguishing patients with heart failure, which in clinical practice will improve diagnosis and early detection of diseases (Publication No. 5, Indicator G8).

This retrospective analysis gives cardiologists a better view of perioperative neurological complications and opportunity for better preoperative preparation in order to optimize the clinical approach to the patient.

Her scientific activity is complemented by her long-term work as a section editor of the MUV MN is involved in two major scientific projects: "Research of the Application of New Mathematical Methods for the Analysis of Cardiac Data" together with researchers from the Institute of Robotics at the BAS; "Circulating Histone Proteins as Biomarkers of Disease (CHiP-BiD)".

II. Educational and teaching activity

he currently teaches is wide: Internal Diseases part I, 4th year medicine students (in English and Bulgarian) medicine; Internal Diseases, 2nd year rehabilitation students (in Bulgarian); Pharmacotherapy, 5th year pharmacy students (in Bulgarian); Internal Diseases, 3rd year physiotherapy students (in Bulgarian); Cardiology (elective course) for medical students, training of 6th year interns (in English and Bulgarian), as well as cardiology specialists at the Medical University of Varna. Her teaching workload for the last 4 years is over 100 hours, so the

candidate meets the requirements for the annual work load for holding AP "Professor" according to RDAS of MUV.

MN is chairman of the examination committees for the Internal Diseases Part I 4th year (in Bulgarian and English) semester exam and Internal Diseases 6th year (in Bulgarian and English) state exam. MN is an examiner at the examination committee of the state examination for acquiring the specialties: Cardiology and General Medicine. She participates in the training in congenital heart defects echocardiography, expert level at the MUV and is an examiner at the examination committee for acquiring of this legal capacity.

Since 2018, she has been the Head of ES of Cardiology, proving her organizational abilities. She is the person in charge of the accreditation of the clinic for training in cardiology.

MN was a scientific consultant for one graduate (TU-Sofia, 2015) and currently supervises 4 doctoral students: 3 in cardiology, 1 in health care management program.

III. Conclusion

MH is an erudite university teacher with extensive research output and clinical activity, updated systematically over the years. Her scientific achievements are undeniably distinguished by the depth of conducted studies, and presented contributions – by the aspirations to effectively translate fundamental knowledge to clinical experience.

The overall assessment of the career development, research output, educational and teaching experience and, last but not least, organizational skills, give me full reason to express my **positive** opinion regarding the awarding of the academic position "Professor" to Assoc. Prof. Maria Negreva, MD, PhD, DSc. for the needs of the ES of Cardiology, First Department of Internal Medicine, Faculty of Medicine, Medical University of Varna and First Cardiology Clinic, University Hospital St. Marina, Varna.

Date: July 24th, 2023

Signature:

(Prof. Zhaneta Georgieva, MD, PhD)

