

## STATEMENT

from prof. Lily Plamenova Peikova, PhD

for the announced competition for the academic position "Professor" in the field of higher education 7. "Health and Sport", in the professional field 7.3. "Pharmacy" and scientific specialty "Pharmaceutical Chemistry" for the needs of the Department of Pharmaceutical Chemistry, Faculty of Pharmacy (FF), Medical University (MU) - Varna, State Gazette, no. 7/23.01.2024 г.

One candidate participates in the competition, assoc. prof. Svetlana Fotkova Georgieva, PhD, who meets the scientific-metric requirements in accordance with the "Regulations for the Implementation of the Law on the Development of Academic Staff in the Republic of Bulgaria" and the "Regulations for the Development of Academic Staff of MU-Varna" (Academic reference prepared in the library of MU-Varna for publications, citations and scientific profiles) and was admitted to the competition by the committee for the admission of the required documents.

Assoc. prof. Georgieva acquired the following qualifications: 2003, Bachelor, specialty "Biotechnologies"; 2006, Master, specialty "Biotechnologies"; 2016 Master's degree, specialty "Organic Chemistry"; 2022, Master, specialty "Pharmacy" (MU-Varna); 2011, PhD in "Pharmaceutical Chemistry"; 2019, Specialty "Analysis of Medicinal Products".

The work experience of assoc. prof. Georgieva as a lecturer, passes through assistant, beginning in 2008 at the Medical College, Burgas and MU-Varna, and associate professor since 2013 at MU-Varna and continues. This academic development undoubtedly shows the acquired and necessary knowledge and skills required for her professional realization as a teacher and scientist in the field of pharmacy.

### **Educational work**

The educational work of assoc. prof. Georgieva is mainly related to the education of pharmacy students for the acquisition of the educational-qualification degree "Master Pharmacist" in the disciplines: Pharmaceutical chemistry and Pharmaceutical analysis. According to the curricula, assoc. prof. Georgieva conducts lectures, practical exercises, seminar classes, participates in semester and state examination committees with education load exceeding the required teaching hours, according to the decision of the Academic Council of MU-Varna. She is the supervisor of six successfully defended PhD students, as well as of five PhD students in training. Assoc. prof. Georgieva participates in the

development and continuous updating of the curricula of the courses she teaches and is a co-author of one Manual of Pharmaceutical Chemistry, two textbooks for practical exercises in Pharmaceutical Analysis and Test Problems in Pharmaceutical Chemistry. The teaching work of assoc.prof. Georgieva gives grounds to define her as a continuously developing lecturer at MU-Varna, generally in the fields of Pharmaceutical Chemistry and Pharmaceutical Analysis.

### **Scientific research work**

In terms of research work, assoc. prof. Georgieva fully meets the quantitative criteria defined in the Minimum national requirements and the requirements of the Regulations on the conditions and procedure for the acquisition of scientific degrees and academic positions at MU-Varna. According to the report prepared from the Library of MU-Varna, she participated in the competition with 33 scientific works, Indicators D7 and D8. The total points obtained from Indicators D7 and D8 are 307.8 points with a mandatory minimum of 200 points (Indicators D5-9). The citations reflecting the scientific activity of assoc. prof. Georgieva are eight, all in Indicator D10 from foreign scientific journals and authors. The scientific projects involving assoc. prof. Georgieva are eight (Indicators F16-18). The number of publications outside the minimum scientific requirements for the position of Professor is 14. Assoc. prof. Georgieva has participated in 87 national and international scientific forums with papers and posters. The scientific metrics presented by assoc. prof. Georgieva for the academic position "Professor" in accordance with the Regulations for the Implementation of the Law on the Development of the Academic Staff in the Republic of Bulgaria and the Regulations for the Development of the Academic Staff of the Medical University - Varna are convincing.

The monograph entitled "A systematic review of the properties and action of dietary supplements. Safety and quality" with authors assoc. prof. Georgieva and assistant profesor Agova have a volume of 243 pages and a separating Protocol of Equivalence for participation in competitions.

The main scientific contributions of assoc. prof. Georgieva are of scientific-theoretical and scientific-applied nature in the following areas: organic synthesis and characterization of chemical structures; determination of pharmacological activity of substances with potential biological activity - synthetic and in natural products; characterization of foods, food additives and natural products and study of trends in the therapy of socially significant diseases.

Very accurate, assoc. prof. Georgieva focuses on the synthesis and pharmacological-analytical characterization of imidazole and bexarotene derivatives, based on the potential biological activity of such structures. The application of updated synthetic approaches and the

use of modern methods for the proof of chemical structures is a major contribution to experimental chemistry.

An essential fundamental contribution is the research on the application of in vivo and in vitro models to determine the toxicological, pharmacological, and antimicrobial profile of biologically active substances. QSAR (Quantitative Structure-Activity Relationship) analysis has been used in the design of chemical structures to target the defined biological activity of newly synthesized molecules through their structure and physicochemical properties.

The study of the European and national legislation is of the scientific and applied nature, as well as the possibilities for harmonization of the safety criteria for food additives, which is related to the need for their characterization in terms of identity and quantitative analysis.

The in-depth investigation of the trends of modern therapy of socially significant diseases, with a focus on oncology, acne-autoimmune disease, bacterial and fungal infections, base disease, and multiple sclerosis is definitely of a pronounced scientific and applied nature.

Assoc. prof. Georgieva applies modern and convincing research approaches and methods. This scientific quest defines her as a continuously evolving and time-responsive researcher contributing to the development of pharmaceutical science.

### **Conclusion**

Assoc. prof. Georgieva meets all the requirements for the academic position of PROFESSOR. My evaluation is convinced POSITIVE.

24.04.2024

Reviewer:

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(prof. Peikova, PhD)