

R E V I E W

from

Prof. Dr. Marieta Petrova Georgieva, MD, PhD

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Pharmacy,**

Medical University "Prof. Dr. P. Stoyanov" - Varna

Member of a scientific jury based on order No. 109-318/20.07.2022. of the Rector of Varna Medical University and appointed as the Chairman of the scientific jury and for preparation of a review according to the protocol of the first meeting held on 12. 08. 2022.

REGARDING: Competition announced in the State Gazette, issue 41 / 03. 06.2022 for the needs of the Department of "Pharmacology, Toxicology and Pharmacotherapy", Faculty of Pharmacy, Medical University - Varna "Prof. Dr. Paraskev Stoyanov" in the Specialty "Public Health Management (Process management in pharmacology), Professional direction 7.4. Public Health, Higher Education Area 7. Health Care and Sports.

One candidate participated in the competition - Assoc. Prof. Kaloyan Dobrinov Georgiev, PhD, DSc. The candidate has submitted all the necessary documents for the competition in accordance with the requirements of the Law for Development of the Academic Staff in the Republic of Bulgaria, the Regulations for the Application of the Law and the Regulations for the Development of the Academic Staff at the Medical University - Varna " Prof. Dr. Paraskev Stoyanov". The explicit requirement that the candidate possess acknowledged specialties in the health care system in Pharmacology and Clinical Pharmacy is met.

Brief biographical data

Kaloyan Dobrinov Georgiev graduated in pharmacy from Medical University-Sofia, Faculty of Pharmacy in 2003. He has obtained two post-graduate educations in the field of health care - Pharmacology (for medical doctors with a duration of study of four years) in 2010 and Clinical Pharmacy in 2018. In 2013, he obtained the educational and scientific degree "Doctor" in the scientific specialty: "Bioorganic chemistry, chemistry of natural and biologically active substances" at the Institute of Molecular Biology, Section "Drug Design and Biochemical Pharmacology" at the Bulgarian Academy of Sciences (BAS) Sofia, with the work: "Design, synthesis and pharmacological characterization of peptide mimetics of endomorphin-2, morphiceptin and RGD with analgesic and antitumor activity". In 2020, he has acquired the scientific degree "Doctor of Sciences" in professional direction 7.3. Pharmacy and specialty "Pharmacology (incl. pharmacokinetics and chemotherapy) with the thesis: Identification, analysis and evaluation of pharmacokinetic and pharmacodynamic drug interactions".

His professional path began as a "master pharmacist" in a pharmacy in the period 2003-2005. From 2005, after winning a competition, he was appointed as an assistant at Varna Medical University. In 2014, he has won a competition and was appointed as "Chief Assistant", and then in 2015 he has obtained his habilitation and held the position of "associate professor" in professional direction 7.3. Pharmacy in the scientific specialty "Biopharmacy and Pharmacokinetics". In the period 2016-2020, he was the Head of the Department of "Pharmaceutical Technologies", and from 2020 until now he is the Head of the Department of "Pharmacology, Toxicology and Pharmacotherapy" at the Faculty of Pharmacy at the University of Varna.

Teaching and learning activity

Associate Professor Kaloyan Georgiev has gained more than 17 years of experience in the specialty and more than 16 years of teaching experience. The workload report for the last five years shows that Assoc. Prof. Georgiev significantly exceeds the norm for the position he holds and actively participates both in the preparation of lecture courses and in conducting exercises. His disciplines include: pharmacology, toxicology, biopharmaceutics and pharmacokinetics, pharmacotherapy and fundamentals of clinical pharmacy. These disciplines over time have been taught to a wide range of students - medical doctors, dental doctors, pharmacists, assistants-pharmacists, X-ray and medical laboratory technicians, nurses and midwives, rehabilitators and students in medical rehabilitation and occupational therapy. It should be noted here that in most of these disciplines, Assoc. Prof. Georgiev has independently developed the complete lecture courses and those for the exercises in the relevant disciplines. Assoc. Prof. Georgiev is also involved in the publication of numerous study guides and manuals for pharmacology and toxicology for pharmacy students, also he is an editor in pharmacology one. He actively participates in the training of postgraduates in the specialties "Pharmacology and Pharmacotherapy", "Clinical Pharmacy" and "Hospital Pharmacy". In addition, he is the chairman of the State Examination Commission for the specialty "Clinical Pharmacy" (according to Order No. RD-19-1/24.03.2021 of the Ministry of Health).

Scientific and publication activity

Regarding the scientific and publication activity, Assoc. Prof. Georgiev participated in the current competition with a **total of 25 scientific works** - scientific full-text publications (24 items) and a monograph (habilitation thesis), which were not submitted so far in any competition in which he participated, of which:

- 14 scientific full-text publications are in scientific papers, referenced and indexed in world-famous databases - Scopus or Web of Science (indicator D7 from the reference)
- 6 scientific full-text publications in non-refereed peer-reviewed journals or edited collective volumes (reference indicator D8)
- Chapter of a collective monograph: Probiotics: past, present and future challenges. from Problems in the Prevention and Management of Human Diseases. A Scientific Perspective, Elsevier, 2022 (referenced in Scopus, Indicator D9 of the reference)
- 3 scientific full-text publications beyond the minimum scientometric requirements.
- A published monograph - Regulatory aspects in drug interaction studies in preclinical and clinical stages in the creation of new drugs, published by "Steno", 2022.

I would like to pay special attention to the dissertation work of Prof. Kaloyan Georgiev: "Identification, analysis and evaluation of pharmacokinetic and pharmacodynamic drug interactions". This dissertation is a shining example of the unity of pharmacy, clinical pharmacy and clinical pharmacology. The dissertation summarizes an effort spanning more than 10 years with the help of various collaborators. It is structured very interestingly, practically following the path of a substance to a medicine and its relationships with other medicines: selection of the plant, isolation of fractions, characterization of the extract, selection of a potential active substance, pharmacological profile, simulation of pharmacokinetics and

pharmacodynamics, interactions. Extremely precise techniques, safe reagents, good apparatus, high-quality computer programs are used. My admiration for associate professor Kaloyan Dobrinov Georgiev

The candidate's scientific output has also been presented at numerous scientific forums held both in Bulgaria - 20 and abroad - 6. 9 citations have been presented, covering the minimum requirements in indicators D10-12. A check of the candidate's profiles in Google scholar and ResearchGate shows that the citation rate of his scientific output is significant - over and around 200 citations (Google scholar 231, ResearchGate 195) in both profiles, which shows the importance of his published scientific works.

An impression is made by the presented reference for the Impact factor - 37.364, which is not mandatory, but provided by the applicant. It shows that a large part of the candidate's scientific output (17 scientific publications) has been published in world-renowned and recognized journals.

Assoc. Prof. Georgiev is the head of two projects financed by the "Science fund" at the MU-Varna (E18 from the reference), and also is an expert in two others (E16 from the reference). Under his supervision, two PhD students have successfully defended their dissertation works (E14 from the reference): Silvia Mihailova with the topic "Synthesis and biological evaluation of SMAC-NT peptide conjugates and combined antineoplastic and analgesic action" 2019 and Maya Radeva-Ilieva with the topic "Isolation and analysis of Methylxanthine Fraction, Catechin Fraction and Total Extract of Bancha Green Tea and Study of Their Effects on the Pharmacokinetics of Sildenafil in Rats" 2022. Currently, 6 PhD students are being trained under his supervision.

I fully accept the provided reference for the scientific contributions of the candidate after holding the AD "associate professor". The presented scientific output and the candidate's interests are mainly in the field of pharmacology (including pharmacokinetics), toxicology and clinical pharmacy, which are decisive for the field in which the competition

is announced - Public Health (processes management in pharmacology) and I think that the candidate fully meets the set criteria for holding the position in this direction. The emphasis is on the drug interaction processes, considered many points of view, such as regulatory features in drug interaction studies in the process of implementing new drugs, incl. phytomedicines and therapeutic proteins, pharmacological features, incl. the pharmacokinetic and pharmacodynamic potential, the toxicological risks, the clinical significance of drug interactions and determining the role of the pharmacist in this entire complex process.

Conclusion

The scientific output of Assoc. Prof. Kaloyan Dobrinov Georgiev fully complies with the Law on the Development of the Academic Staff in the Republic of Bulgaria, as well as the Regulations for its implementation, and the Regulations of MU-Varna for occupying the academic position of "professor". The minimum requirements are fully met for holding the position of "professor", and according to many of the indicators they are exceeded. Based on the above I give a **POSITIVE ASSESSMENT** and propose to the respected members of the Scientific Jury to vote for awarding the academic position of "professor" in the field of higher education 7. Health care and sports, professional direction 7.4. Public health in the specialty "Management of public health (Management of processes in pharmacology)", for the needs of the department of "Pharmacology, toxicology and pharmacotherapy" at the Faculty of Pharmacy of the MU-Varna to Assoc. Prof. Kaloyan Dobrinov Georgiev.

Varna

10.10.2022



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/Prof. Dr. Marieta Petrova Georgieva, MD, PhD/