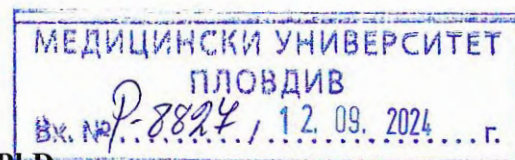


## REVIEW

by Prof. Dr. Rumen Pavlov Nikolov, PhD

**Department of Pharmacology and Toxicology, Faculty of Medicine,  
Medical University of Sofia**



member of the scientific jury for the academic position "Professor" (published in State Gazette No. 47/04.06.2024), approved by order of the Rector of Medical University - Plovdiv No. R-2652/07.08.2024, area of higher education 7. Health care and sports, professional direction 7.1. Medicine, specialty "Pharmacology (incl. pharmacokinetics and chemotherapy)" - one, full-time position for the needs of the Department of "Pharmacology and Toxicology", Faculty of Medicine at Medical University - Plovdiv.

One candidate took part in the competition – Assoc. Prof. Delyan Delev, PhD.

### **I. Biographical data and career profile of the candidate**

Assoc. Dr. Deyan Delev, PhD was born on 14.08. 1976 in the city of Plovdiv and graduated from the Plovdiv Language High School in 1995. In 2001, he graduated from the High Medical Institute - Plovdiv. Since 2003, Dr. Delev has been an assistant professor in the Department of Pharmacology and Clinical Pharmacology at the Faculty of Medicine at the Medical University of Plovdiv. In 2013, he successfully defended his doctorate in the specialty "Pharmacology (including pharmacokinetics and chemotherapy)" at the Faculty of Medicine at the Medical University of Plovdiv. The candidate successively acquired an academic position "Chief assistant" in 2013 and "Associate professor" in 2016. Associate Professor Delyan Delev has acquired a specialty in "Pharmacology" (2012). In 2015, he graduated with a master's degree in public health and management. Associate Professor Delyan Delev held the position of administrative chief assistant from 2013 to 2016, and in 2020 he was elected head of the Department of Pharmacology and Clinical Pharmacology at the Faculty of Medicine at the Medical University of Plovdiv.

Assoc. Prof. Delev has over 20 years of teaching experience in the discipline of pharmacology at the Faculty of Medicine of the Medical University of Sofia, where he teaches pharmacology in Bulgarian and English to medical and dental students.

Prof. Delyan Delev is a member of the Bulgarian Society of Pharmacology and Clinical Pharmacology and Therapy (member of the Board), the European Association of Clinical Pharmacology and Therapy, the Union of Scientists in Bulgaria, the Bulgarian Society of

Simulation Medicine, and Bulgarian Medical Union. Assoc. Prof. Delev is a member of the Faculty Council of the Medical Faculty at the Medical University - Plovdiv.

Assoc. Prof. Delev is the supervisor of 3 doctoral students who have successfully defended dissertation work. He participated in 1 scientific project.

The candidate is fluent in English, German, and Russian and has excellent technical skills for working with computer programs.

## **II. General description of the submitted materials for the competition**

The documents are submitted on an electronic medium. Associate Professor Delyan Delev has attached a complete set of documents in accordance Regulations for obtaining scientific degrees and occupying academic positions of the Medical University - Plovdiv: application to the Rector of the Medical University - Plovdiv for admission to the competition with a description of the documents; CV in European format; diplomas for completed higher education (diploma for completed education in medicine from High Medical Institute - Plovdiv, diploma for master in public health and management from Medical University - Plovdiv, diploma from for acquired scientific and educational degree "doctor" from Medical University - Plovdiv, diploma for specialty in pharmacology, diploma for the academic position of associate professor), medical certificate, criminal record certificate, list of publications in refereed and non-refereed journals, monograph, reference for scientific contributions and references for the academic workload.

## **III. Evaluation of the scientific works of the candidate for the overall academic development**

Assoc. Dr. Delyan Delev has significant publication activity.

The candidate participated in the competition with a monograph and 63 scientific papers, as follows:

- Monograph "Selected adverse drug reactions and interactions" Second revised and supplemented edition, Medical University - Plovdiv, Plovdiv, 2023. - 176 pages;
- Presented 34 publications in indexed editions, in world-renowned databases with scientific information (Scopus and Web of Science), of which 15 publications in journals with IF;
- Presented 28 publications in non-refereed peer-reviewed journals or published in edited collective volumes.

In his self-assessment, the candidate divided the points to be awarded for each scientific work presented, in proportion to the number of co-authors, and the candidate's points by

groups of indicators, which I recognize, are as follows: indicator A - 50 points, indicator B - 100 points and indicator D – 471.96 points.

The candidate meets and significantly exceeds the normative requirements of Medical University - Plovdiv for publication activity (471.96 points against a requirement of 300 points).

#### **IV. Evaluation of the monographic work or equivalent publications submitted for participation in the competition**

The candidate has submitted a monograph on "Selected Adverse Drug Reactions and Interactions". Phases and design of the clinical trial, adverse drug reactions, drug interactions, drug-induced liver disease, and drug-induced lung disease are discussed in the monograph as separate chapters.

Problems related to adverse drug reactions are important for clinical practice due to the main role of pharmacotherapy in chronic disease treatment, as well as saving the life in emergency medicine. According to literature data, the frequency of adverse drug reactions is 5-15%. Epidemiological studies demonstrate that adverse drug reactions occur in 2-6% of all hospitalized patients, with 6-15% of them having serious adverse reactions.

The monograph also addresses the issue of drug interactions. The desired interactions are determined by the achievement of an optimal therapeutic effect when combining drugs, and in recent years fixed combinations have been preferred. Adverse drug interactions are determined by the increasing importance of various risk factors such as polypharmacy, multimorbidity, the increasing use of non-prescription drugs, and dietary supplements.

The monograph has important theoretical and applied contributions to clinical practice due to its comprehensive consideration of two important problems of drug use - adverse reactions and drug interactions.

#### **V. Scientific contributions**

The scientific contributions of the articles and monograph submitted for review are in the following directions: contributions related to pharmacological research on influencing andropause in experimental conditions; contributions related to the pharmacological study of *Sideritis scardica* plant extracts (anxiolytic, neuroprotective, and anti-inflammatory effects were found); contributions related to therapeutic options in acute bronchiolitis; theoretical and applied contributions related to adverse drug reactions and drug interactions.

## **VI. Citation of the candidate's publications in the national and foreign literature**

According to the reference attached by the applicant, 182 citations are presented in the Scopus and Web of Science databases (according to an up-to-date reference in the Scopus database - 232 citations) and 6 cited in non-refereed peer-reviewed journals. The candidate meets and repeatedly exceeds the normative requirements for citing scientific works (3510 points against a requirement of 400 points).

## **VII. Assessment of teaching and learning activities**

From 2003 to the present, the candidate has been conducting practical classes, and since 2016 in the pharmacology course for students of medicine, dentistry, and pharmacy at the Faculty of Medicine of the Medical University – Plovdiv. In the last 3 years, Assoc. Prof. Delev has an average of 639 hours/academic year of classroom employment, which exceeds almost 4 times the normative classroom employment for a habilitated teacher.

Assoc. Prof. Delev participated as the author of independent chapters in 6 textbooks for students of medicine, dentistry, and assistant pharmacists. Participated as an author in 8 study aids for students of medicine, dentistry, and pharmacy.

## **VIII. Critical notes and recommendations**

I have no critical notes.

## **IX. General assessment of the applicant's compliance with the mandatory conditions and mandatory quantitative criteria and scientometric indicators according to regulation for occupying academic positions at Medical University - Plovdiv**

Field of higher education 7. Health care and sports, professional direction 7.1. Medicine, specialty "Pharmacology (incl. pharmacokinetics and chemotherapy)"

**Table 1. Minimum required points by groups of indicators for different scientific degrees and academic positions at Medical University - Plovdiv.**

<b>A group of indicators</b>	<b>Content</b>	<b>Professor</b>	<b>Assoc. Prof. Delyan Delev</b>
A	Indicator 1	50	<b>50</b>
B	Indicator 2	-	

В	Indicators 3 or 4	100	<b>100</b>
Г	Sum of indicators 5 to 9	300	<b>471,96</b>
Д	Sum of indicators from 10 to 12	400	<b>3510</b>
Е	Sum of indicators 13 to 21	150	<b>192,7</b>
Ж	Teaching activity	500	<b>1958</b>

## X. Conclusion

My comprehensive assessment of the teaching and research activities of Assoc. Prof. Dr. Delyan Delev, PhD, is positive. The candidate meets the mandatory and specific conditions and the scientometric criteria in the ZRASRB and the Regulations of the Medical University - Plovdiv, for the occupation of the academic position "Professor".

The materials submitted by the candidate for the competition show that Prof. Delev fulfills and exceeds in all indicators the criteria for occupying the academic position "Professor", according to the Law on the Development of the Academic Staff of the Republic of Bulgaria, the Regulations for its application and the Regulations of the MU - Plovdiv. The presented scientific articles, and monograph meet the quantitative and qualitative criteria for publication activity and show a high contribution character.

I give my **positive** assessment to Assoc. Prof. Dr. Delyan Delev in the competition and propose to the respected members of the Scientific Jury to award **Assoc. Prof. Dr. Delyan Delev, PhD**, the **academic position of "Professor"** in the field of higher education 7. Health care and sports, professional direction 7.1. Medicine, specialty "Pharmacology (including pharmacokinetics and chemotherapy)".

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/Prof. Dr. Rumen Pavlov Nikolov, MD/