

South-West University "Neofit Rilski"

OPINION

by **Assoc. Prof. Maya Georgieva Chochkova, PhD**

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member of the Scientific Jury in a competition for the academic position of "ASSOCIATE PROFESSOR", in professional field 4.2. Chemical Sciences (*Bioorganic Chemistry, chemistry of natural and physiologically active compounds*), announced by SWU "Neofit Rilski" in the State Gazette № 57/ 04.07.2023г.

*Subject: the scientific, scientific-applied and professional-academic activity and production, presented by the only candidate in the competition **PhD Radoslav Lyudmilov Chayrov, Chief Assist. Prof.** at the Department of Chemistry, South-West University "Neofit Rilski"*

I. Summarized data on the scientific production and the activity of the candidate

The documents submitted by the candidate, **PhD Radoslav Chayrov** are precisely organized and prepared in accordance with the requirements of the *Law for the development of the academic staff of the Republic of Bulgaria (LDASRB), the Regulations for the application of the LDASRB (RALDASRB), and the Regulation on the conditions and procedure for acquiring scientific degrees and holding the academic position of "Associate Professor" of the SWU "N. Rilski, in professional field 4.2. Chemical Sciences.*

He covers the minimum national and additional requirements of indicators as follows:

According to indicator A1.

50 points

In 2017 Radoslav Chayrov defended his PhD thesis "Synthesis and HPLC Analysis of Antiviral Drug Analogues" under the supervision of Assoc. Prof. Dr. Ivanka Stankova (supervisor) and Assoc. Prof. Dr. Eng. Dancho Danalev (consultant).

The presented scientific publications on the topic of competition have been referred and indexed in SCOPUS/ISI Web of Science. According to the Scimago Journal & Country Rank metric, they are as follows:

According to indicator B4. **107 points**

Six of the presented scientific publications are considered equivalent to a habilitation work, including: **1** publication with **Q1** (25 pts.), **3** publications with **Q2** (60 pts.), **1** publication with **Q4** (12 pts.), **1** publication with **Q3** (with SJR, but without IF), 10 points.

According to indicator Г7. **132 points**

By this criterion, the candidate has provided 7 scientific publications, **6** of which have IF, and 1 has SJR, all of them are indexed in Scopus/ISI Web of Science: **3** publications with **Q1** (75 pts.), **1** publication with **Q2** (20 pts.), **1** publication with **Q3** (15 pts.), **1** publication with **Q4** (12 pts.), **1** publications with SJR, but without **IF** (10 pts.).

According to indicator Г9. **75 points**

In this criterion, three patents are included, in which Dr. Chayrov is a co-author.

The sum of the indicators in group G is 207 points, which means the candidate meets the minimum requirements of 200 points for this criterion.

According to indicator Д11. **60 points**

There are 30 citations (x 2 points) by *Scopus* (excluding self-citations), applied in the documents of candidate, which fulfills a minimum of 60 points. The Hirsch index (h-index) for the citations of candidate's publications is $h = 4$.

According to indicator E **30 points**

The candidate has also fulfilled the additional criterion of the SWU "N. Rilski" for required minimum of 30 points, by participation in a research project under the program for bilateral cooperation between Bulgaria and Russia (No. KP-06-Russia-7/27.09.2019).

II. Evaluation of the scientific and practical results and contributions of the creative production presented for participation in the competition

The scientific activity of Assist. Prof. Dr. R. Chayrov is focused towards the

following main directions:

1. *Synthesis and characterization of newly analogues by chemically modifications of approved drugs (anti-influenza, against Alzheimer's disease (AD), and Parkinson's disease (PD), etc.).*

2. *Investigations of the stability of newly synthesized derivatives in model buffer solutions, mimicking the conditions of human body.*

◆◆◆ Dr. Chayrov's research work is current and falls within the field of bioorganic chemistry, specifically focusing on amino acid/ oligopeptide derivatives of well-known drugs used to treat socially significant diseases such as neurodegenerative disorders (PD, AD), influenza infections, and others. The scientific results have been presented as 20 poster presentations and 5 oral presentations at national and international forums.

Dr. Chayrov has been a supervisor of one graduate student and has also provided consultation of other 12 bachelor's/ master's degrees students.

◆ It is worth to mention that a part of the results are collected into three patents, where Dr. Chayrov participates as a co-author and which demonstrate the scientific and practical character of this part of the investigations.

III. Critical remarks and recommendations

I have no critical remarks on the design of the presented materials.

IV. Conclusion

Based on the information provided above and considering the entire documentation submitted for this competition, I believe that Assist. Prof. Dr. Radoslav Chayrov meets the requirements, therefore I confidently give my positive assessment for awarding the academic title "Associate Professor" to Dr. Radoslav Chayrov in the professional field 4.2. *Chemical Sciences, scientific specialty Bioorganic Chemistry, Chemistry of Natural and Physiologically Active Compounds.*

Date: 07.10.2023г.

Jury member:

/Assoc. Prof. Maya Chochkova, PhD/