

## POSITION

by Prof. Dr. Ivanka Ilieva Kostadinova, MD, PhD

Department of Pharmacology and Clinical Pharmacology

at the Medical Faculty of the Medical University of Plovdiv

By order № P-109-396 / 20.09.2021 of the Rector of MU-Varna a composition of the scientific jury was appointed according to the procedure for holding the academic position "Associate Professor" in the specialty "Pharmacology (including Pharmacokinetics and Chemotherapy)", professional field 7.1 Medicine, field of higher education 7. Healthcare and sports, with candidate Chief Assistant Professor . Silvia Gancheva Marinova, MD, Ph.D.

In the announced competition Gancheva presented all documents in accordance with the requirements of ZRASRB and the Regulations for the development of the academic staff of MU-Varna. The materials are presented in chronological order, which allows me to accurately and objectively make a general description of the scientific, scientific-applied and pedagogical activities of the candidate and accurately assess the overall activities of. Silvia Gancheva Marinova, MD as a lecturer and researcher.

### Brief biographical data

In 2001 Gancheva graduated from the High School of Natural Sciences and Mathematics "St. Kliment Ohridski "in the town of Silistra. In 2007 he graduated from the Medical Faculty of MU-Varna. In 2008 she was appointed an assistant at the Department of Pharmacology and Clinical Pharmacology and Therapy, from 2018 she was an administrative assistant, from 2019 - a senior assistant in the same department. From 2015 to 2018 he was a doctoral student in independent training at the Department of Pharmacology and Clinical Pharmacology and Therapy at the Medical Faculty of the Medical University of Varna. Acquired a specialty in Pharmacology in 2017. In 2018, Silvia Gancheva acquired PhD after successfully defending a dissertation "Effects of vitamin K in an experimental model of metabolic syndrome." Gancheva's report shows that the candidate has met the minimum national requirements under Art. 26, para. 5 of ZRASRB for holding the academic position "Associate Professor"

Table 1 Information on compliance with the minimum national requirements of the submitted data for Silvia Gancheva Marinova, MD, PhD

Group of indicators	Contents	AD "Associate Professor" Number of points	Points for Silvia Gancheva Marinova, MD, PhD
A	Indicator1	50	97.5 (1 article with IF)
B	Indicator 3	100	100
G	Sum of indicators 7 and 8	200	204 + 11.48 215,48
D	Indicator 10	50	210

The data presented in Table 1 exceed many times the minimum requirements for the academic position of "Associate Professor".

## **General data on the scientific activity of Chief Assistant Silvia Gancheva Marinova, MD, PhD**

Along with the documents presented in the competition, Gancheva presented a monograph "Kochia scoparia - health benefits of an" ordinary "plant" with a total volume of 139 pages. Medical University of Varna, 2021; ISBN 078-619-221-333-6.

Gancheva, MD presented a list and summaries of 17 scientific articles, referenced in international scientific databases, 5 full text reports, 48 participations in scientific forums. Of these, 18 abroad, 10 abstracts, published in supplements to international publications with an impact factor (20.06 ). Total impact factor from full-text publications and abstracts - 25,119. In Scopus Gancheva has marked 8 documents with 53 citations and h-index 3. In 12 of the articles Gancheva is the first author. Silvia Gancheva,MD,PhD participates as a researcher in 5 intra-university projects: 1. Role of vitamin K-dependent protein osteocalcin in the regulation of energy metabolism in women with metabolic syndrome. Funded by the Science Fund, MU - Varna. Competition session 2017, active; role - administrative and financial manager

2. Vitamin K dependent g proteins - new biomarkers for cardiovascular calcification. Funded by the Science Fund, MU - Varna. Competition session 2017, active; role - participant

3. Experimental study of the effects of biologically active substances of plant origin in models of metabolic syndrome and liver toxicity in rats for the future development of medicinal products or food supplements. Funded by the Science Fund, MU - Varna. Competition session 2016; completed 2020; role - participant

4. Pharmacological action of vitamin K-dependent protein osteocalcin in rats with metabolic syndrome - metabolic and behavioral aspects. Funded by the Science Fund, MU - Varna. Competition session 2015; completed 2018; role - coordinator

5. Vitamin K status and indicators of energy metabolism in experimental and clinical conditions. Funded by the Science Fund, MU - Varna. Competition session 2011; completed 2016; role – participant

Along with the documents of the competition, Chief Assistant Gancheva presented a report on the contributions in scientific fields. I accept without corrections and remarks the reference made of the contributions. In the report she described in detail the contributions in her scientific activity. The research included in the presented in the academic reference of .Silvia Gancheva

evidence can be divided into the following areas:

1. Vitamin K and osteocalcin In this area there are 8 articles and reports. Original research on the role of vitamin K-dependent protein osteocalcin in the regulation of energy metabolism and behavior in experimental animals is presented. An efficient and safe model of subclinical deficiency in Wistar rats has been developed. A slice clinical study was performed confirming the regulatory role of osteocalcin in carbohydrate metabolism.

2. Drug interactions The studies in the second area include 4 publications. These studies are of great practical importance.

3. Pharmacological effects of Kochia scoparia Studies in this area are presented in a monograph and three publications. The data can be used to conduct clinical trials to develop medicinal

products for prophylactic and therapeutic purposes. The monograph describes a study that focused for the first time on the central effects of *Kochia scoparia*.

4. Effects of biologically active substances of natural origin in different experimental models. Studies in this area are presented in 4 publications and reports. The data from these experimental studies are of original or confirmatory nature.

### **Teaching activity**

Gancheva participates in the training of medical students in Bulgarian and English in pharmacology and clinical pharmacology, masters in dental medicine in Bulgarian and English. For the school years 5, as of 2016/2017, the study load of Gancheva is respectively 550 hours, 697, 574, 496, 495 school hours. This workload is much higher than the accepted norm for study workload of teachers from pre-clinical departments.

Silvia Gancheva, MD, PhD participates as a co-author in 4 textbooks for teaching pharmacology to physicians, dentists and pharmacists at MU-Varna.

### **Conclusion**

After I got acquainted with the research and teaching activities of Chief Assistant. Silvia Gancheva, MD, PhD I can summarize that the points of Gancheva on some of the indicators for registration with NACID are much higher than those specified in the requirements for the academic position "Associate Professor" at MU-Varna. Ch. Assistant Silvia Gancheva, MD, PhD is a scientist and lecturer with a desire for development and improvement. Her excellent communicative qualities, good integration in new environments, many years of experience in working in Bulgarian and English with different people in different environments are qualities that she deserves in teaching and research.

Chief Assistant Gancheva, MD, PhD participates in the teaching of Bulgarian and English to students of medicine, dentistry and pharmacy in pharmacology and clinical pharmacology. The study load of Gancheva is much above the norm for study load of teachers from the Medical Faculty of MU-Varna.

Based on the reasons set out in my conclusion, I will vote positively for the award of the academic position of "Associate Professor" to Silvia Gancheva Marinova, MD, PhD. I recommend to the esteemed members of the scientific jury to evaluate with dignity the overall activity of Chief Assistant Silvia Gancheva, MD, PhD in the competition for the academic position of "Associate Professor" in "Pharmacology / incl. Pharmacokinetics and chemotherapy/ , professional field 7.1 medicine, field of higher education 7. Healthcare and sports. For the needs of the Department of Pharmacology and Clinical Pharmacology and Therapy at the Medical Faculty of MU-Varna



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