



TO THE CHAIRMAN OF THE SCIENTIFIC JURY  
PROF. DR. MARIA ORBETSOVA, MD  
DETERMINED BY ORDER No. R-2141/21.06.2024  
OF THE VICE RECTOR OF SCIENCE AND RESEARCH ACTIVITIES  
OF MEDICAL UNIVERSITY-PLOVDIV  
15A V. APRILOV Blvd., 4002 PLOVDIV

On your protocol No. 1/ dated 02.07.2024

**Attached I present: Opinion**

according to the competition for the occupation of the academic position of "ASSOCIATE PROFESSOR" in the scientific specialty of Obstetrics and Gynecology, field of higher education 7. Health care 7.1. Medicine announced for the needs of MU-Plovdiv, Department of Obstetrics and Gynecology in SG No. 35 / 19.04.2024

**Reviewer:** Associate Professor Valentin Yosifov Irmov, PhD  
Scientific specialty: Obstetrics and gynecology  
Institution: University "Prof. Dr. Asen Zlatarov" Burgas

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**1. Analysis of the candidate's career profile**

Assistant Professor Dr. Nicoleta Parahuleva-Rogacheva, MD obtained her Master's degree in Medicine in 2010 and in Public Health and Health Management in 2013 from the Medical University of Plovdiv.

From 2011 to 2014, she was a full-time PhD student in the Department of Obstetrics and Gynecology. In 2015, she successfully defended her doctoral thesis titled: "Diagnostic Reliability of Anti-Müllerian Hormone in Polycystic Ovary Syndrome."

She acquired her specialization in Obstetrics and Gynecology in 2017.

Her professional career began in 2010 as a medical intern at MBAL "St. Panteleimon" in Plovdiv. Since 2013, she has been working as an obstetrician-gynecologist at the Clinic of Obstetrics and Gynecology at UMBAL "St. George" EAD in Plovdiv.

After successfully passing a competition in 2015, she was appointed as an assistant professor, and since 2017, as a chief assistant at the Department of Obstetrics and Gynecology at the Medical University of Plovdiv.

From 2015 to 2021, she held the position of Medical Director at MBAL "Higia-North" AD in Pazardzhik.

She is an author and co-author of over 60 scientific publications in refereed international and national scientific journals, monographs, and textbooks. She has participated in more than 25 prestigious international and national congresses and conferences.

The candidate is a leading researcher in several scientific research projects.

She is proficient in English at C1 level.

Dr. Parahuleva-Rogacheva is a member of the Bulgarian Medical Union, the Bulgarian Society of Obstetrics and Gynecology, the European Society of Reproductive Medicine, and the Union of Scientists in Bulgaria.

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

Chief Assistant Dr. Nicoleta Parahuleva-Rogacheva, MD has submitted all required materials in accordance with the Regulations for the Conditions and Procedure for Acquiring Academic Degrees and Holding Academic Positions at the Medical University of Plovdiv.

The submitted materials for the competition have not been used in previous procedures and are relevant to the subject of the competition.

## **3. Evaluation of the candidate's research activity**

The professional interests of Chief Assistant Dr. Nicoleta Parahuleva-Rogacheva, MD are primarily focused on gynecological endocrinology, pathological obstetrics, gynecological oncology, and the application of bioprinting in personalized medicine.

The candidate participates in the competition with 32 full-text publications, including: 1 collective monograph titled “Health Economic Assessment of Costs for Prematurely Born Children with Respiratory Complications,” 1 chapter “The Application of Bioprinting in Pharmacy” from the collective monograph “Application of Bioprinting in Healthcare,” 19 publications in refereed and indexed journals in renowned global databases (Scopus and Web of Science), and 11 publications in non-refereed peer-reviewed scientific journals.

Dr. Nicoleta Parahuleva-Rogacheva’s major contributions are focused on:

- Applying the diagnostic value of Anti-Müllerian Hormone in Polycystic Ovary Syndrome;
  - Studies demonstrating the impact of corticosteroid prophylaxis in reducing the frequency of neonatal complications in preterm births, as well as the influence of vaginal infections on the rate of preterm births;
  - Analyzing data on the use of surfactant in premature infants with respiratory complications, including treatment costs, health resource utilization, and evaluating the economic benefits of surfactant use in treating newborns with respiratory distress syndrome and hyaline membrane disease;
  - Investigating the impact of endometrial carcinoma in women under 60 years old on the increased incidence of atrial fibrillation;
  - Researching the role of insulin resistance and obesity in endometrial carcinogenesis and the need for developing strategies for prevention and early diagnosis;
  - Studying the relationship between insulin resistance and preeclampsia, and investigating the role of vitamin D as an independent factor in the development of preeclampsia;
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- Exploring the link between oral contraception and the enhancement of inflammatory and atherothrombotic conditions in healthy women;
- Examining the uterine scar during the third trimester following a cesarean section;
- A study showing an increased incidence of atrial fibrillation in hospitalized COVID-19 patients;
- Analyzing the impact of remote training for medical professionals during the COVID-19 pandemic.

Dr. Parahuleva has participated in numerous courses and qualifications, establishing herself as both a clinician and researcher during her over 11 years of professional experience as a physician. Her training includes hysteroscopy, colposcopic diagnostics, ultrasound diagnostics in obstetrics and gynecology, maternal-fetal medicine, modern gynecological prevention, complications of pregnancy and childbirth, methodological foundations of scientific research, fundamentals of scientific experimentation, challenges of bioprinting in medicine, dental medicine and pharmacy, among others.

A report is presented showing 30 citations of the candidate's publications in scientific journals (excluding self-citations), refereed and indexed in Scopus and Web of Science, 3 citations in monographs and collective volumes with scientific review, and 20 citations in non-refereed peer-reviewed journals.

The candidate has participated in three research projects:

- Project PMDP № 01/2022: "Application of Bioprinting in Personalized Medicine - Ethical, Social, and Legal Aspects";
- Project № 3.4.6/2024: "Diagnostic and Prognostic Reliability of Immunohistochemical Biomarkers in Patients with Leiomyoma, Precursor Endometrial Lesions, and Endometrial Carcinoma";
- Project № 3.4.11/2024: "Optimizing Screening and Triage Strategy for Cervical Cancer for the Bulgarian Population."

#### **4. Evaluation of the candidate's teaching activity**

Dr. Parahuleva-Rogacheva, MD has conducted both theoretical and practical training for internship groups. She is responsible for the summer clinical internship for medical students in 2024.

She is a lecturer for basic courses I, II, and III, intended for residents in the specialty of "Obstetrics and Gynecology," and for a module in Obstetrics and Gynecology for residents in "General Medicine."

Dr. Parahuleva-Rogacheva, MD has conducted training for students under the Erasmus+ Program at the Medical University of Plovdiv from 2021 to 2024.

#### **5. Overall evaluation of the candidate's compliance with mandatory conditions, quantitative criteria, and scientometric indicators**

The candidate meets the requirements stipulated in the Regulations for the Conditions and Procedure for Acquiring Academic Degrees and Holding Academic Positions at the Medical University of Plovdiv.

Dr. Nicoleta Parahuleva-Rogacheva's scientometric indicators for the criterion groups and minimum requirements of the University's regulations are as follows:

- **Group A:** 50 points
- **Group B Indicator 3, Habilitation monograph:** 100 points
- **Group C (required minimum of 200 points):**
  - Indicator 7: 231.2 points
  - Indicator 8: 76.8 points
  - Indicator 9: 10 points
  - **Total:** 318 points
- **Group D (required minimum of 100 points):**
  - Indicator 10: 450 points
  - Indicator 11: 30 points
  - Indicator 12: 100 points
  - **Total:** 580 points
- **Group E (required minimum of 60 points):**
  - Indicator 15: 40 points
  - Indicator 16: 45 points
  - Indicator 21: 8.8 points
  - Indicator 22: 30 points
  - **Total:** 123.8 points
- **Group F:**
  - Teaching Load: 443.5 points (required minimum of 100 points)
  - Academic Position: 700 points (required minimum of 200 points)
  - **Total:** 1143.5 points

**Overall Total: 2315.3 points** (required minimum of 810 points)

### Conclusion

Chief Assistant Dr. Nicoleta Parahuleva-Rogacheva, MD meets the conditions for the academic position of "Associate Professor" according to the Law on the Development of the Academic Staff of the Republic of Bulgaria and the Regulations for the Conditions and Procedure for Acquiring Academic Degrees and Holding Academic Positions at the Medical University of Plovdiv.

I give my positive evaluation and recommend that Chief Assistant Dr. Nicoleta Parahuleva-Rogacheva, MD be appointed to the academic position of "Associate Professor" in the field of higher education 7. Healthcare and Sports; Professional Field: 7.1. Medicine; Scientific Specialization "Obstetrics and Gynecology" for the needs of the Faculty of Medicine at the Medical University of Plovdiv.

**August 1, 2024**

**Burgas**

Prepared by: .....

(Assoc. Prof. Dr. Valentin YOSHNOV IIMOV, MD)

Заличено на основание  
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