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Appointed by Order № RD-09-48 of 27.07.2021 of the Director of IEMPAM-BAS

In connection with a competition for the academic position "Associate Professor" in the scientific specialty "Virology" (01.06.13) in the professional field 4.3. Biological Sciences, for the needs of the Pathology Section of the Institute of Experimental Morphology, Pathology and Anthropology with Museum (IEMPAM), published in the State Gazette no. 59 / 16.07.2021.

I. Analysis of the candidate's career profile.

The only candidate in this competition is Chief Assistant (Assistant Professor) Ani Krasimirova Georgieva, PhD, from IEMPAM - BAS. Dr. Ani Georgieva graduated from Sofia University "St. Kliment Ohridsky ", Faculty of Biology, specialty Molecular Biology with a specialization in Animal and Human Physiology with a Master's degree in 2000.

After a regular period of post-graduate student work from 01. 2004 to 06. 2007 in IEPP-BAS, in the scientific specialty "Virology", and subsequent successful defense, she received the educational and scientific degree "Doctor" in the specialty "Virology", code 01.06.13, professional field 4.3. Biological Sciences. The topic of her doctorate dissertation is "*In vitro and in ovo models of chemical and retrovirus-induced carcinogenesis*".

At the time of the competition, the candidate holds the academic position of Assistant Professor, and her research activities include experimental *in vitro*, *in ovo* and *in vivo* modeling of pathological conditions associated with viruses, as well as extensive research in virology through molecular-biological, cellular, immunological, cytological, histological and morphological methods of examination.

II. General description of the submitted materials in the competition.

Chief Assistant Ani Krasimirova Georgieva presents a complete set of materials required for the competition on electronic media as well as on paper. The materials of the candidate in the competition are comprehensive and specific.

Chief Assistant Dr. Ani Krasimirova Georgieva fully meets the criteria and indicators for holding the academic position of "Associate Professor", laid down in the amended and supplemented in 2018th *Law for the development of the academic staff* (LDAS) and in the Regulations for its implementation. It fully meets the minimum national requirements for this academic position. The candidacy of Dr. Ani Georgieva also meets all the specific regulations for the academic

position of "Associate Professor", adopted by the Bulgarian Academy of Sciences and in the regulations of IEMPAM.

III. Evaluation of the scientific works of the candidate and her overall academic development.

Information on fulfillment of the minimum requirements, publication activity and general characteristics of the scientific production

The summary report for fulfillment of the minimum requirements of IEMPAM - BAS for holding the academic position "Associate Professor" has been prepared precisely and correctly. The publications of the candidate submitted for participation in the competition include 5 publications from quartiles Q1, 5 from Q2, 8 from Q3, 3 from Q4. The number of citation in scientific journals, referenced and indexed in world-famous databases of scientific information (*Web of Science and Scopus*) of Dr. Georgieva's works is total of 93. From the 21 publications submitted for the competition it is clear that the candidate is a leading author in 6 of them.

The distribution by years of the publishing activity speaks for the even development of the candidate's scientific career.

The scientometric analysis performed during the evaluation of the candidate's documentation shows that it meets the requirements of the Regulations for application of LDAS, adopted by CMD 122 / 29.06.2018 and which is effective from 06.07.2018 - BAS - where in certain positions it collects twice and many times the number of points above the national minimum requirements for the academic position. The full list of scientific publications of the candidate (40), her participation in international and national forums (74) and her work on various research projects (14) present the candidate as an established researcher and scientist in the field of virology.

Dissemination and application of the scientific and practical achievements of the candidate among the scientific community

The dissemination of the scientific and practical achievements of the candidate is evidenced by the large number of her participations in various scientific forums - 74 participations, of which 42 national and 32 international events.

Characteristics of the research activity of the candidate

Dr. Ani Georgieva's research focuses on *in vitro*, *in vivo* and *in ovo* model systems in virology, oncovirology, experimental oncology based on studies of cytotoxicity, genotoxicity and carcinogenicity with a variety of methodological approaches. A large part of the experimental formulations of the candidate are devoted to studies of antitumor activity (antitumor properties of nanostructured polymeric materials, some alkylphosphocholins, etc.). Studies on the cytotoxic action of the mycotoxin fumonisin B1 and the fungicide mancozeb in cell cultures and model systems contribute to both - the scientific and applied nature of some of the research developments of the candidate. To a large extent, this type of research is refracted through the prism of functional micromorphology, especially after the application of immunofluorescence

and electron microscopy techniques. In her research work Ani Georgieva applies a wide range of molecular-biological, cellular-biological, modern virological and classical histopathological and morphological methods. More specifically in the field of virology, her research is aimed at taxonomic identification of isolated oncogenic retroviruses in Bulgaria and determination of their phylogenetic relationship with other representatives of the group of avian leukemia and sarcoma viruses. In practice, during her career growth, the candidate managed to develop modern model systems for screening the oncogenic properties of viruses and the mechanisms of virus-induced neoplastic processes.

As a result of systematic and complex research in the field of virology and experimental oncology, Dr. Ani Georgieva has achieved contributions of fundamental and applied significance, characterized by original or confirmatory nature, which are summarized in four detailed and extensive areas. The information provided is comprehensive and easy to understand.

IV. Publication image.

The quality of the research activity of Dr. Ani Krasimirova Georgieva is indicated by the number of registered positive citations of her works - a total of 93 citations to date, mostly citations in established Western European scientific journals.

V. Conclusion.

The candidacy of Dr. Ani Krasimirova Georgieva, PhD, in the competition of IEMPAM-BAS, announced for the academic position "Associate Professor", fully complies with the required mandatory conditions, quantitative and qualitative criteria, as well as scientometric indicators in the relevant documents adopted by BAS and IEMPAM - BAS on the basis of LDAS.

All this, together with the set of real scientific and practical contributions achieved during the candidate's career growth, her participation in the implementation of important research projects gives me reason to recommend to the esteemed Scientific Jury appointed in connection with the announced competition to vote for acceptance of a positive proposal to the Scientific Council of IEMPAM, Chief Assistant Professor Ani Krasimirova Georgieva, PhD, from the Department of Pathology at IEMPAM - BAS, participant in the competition, to be elected to the academic position of "Associate Professor" in the professional field 4.3. Biological sciences, scientific specialty (01.06.13) Virology.

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