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Regarding a competition for "Associate Professor" in field 4. Natural sciences, mathematics and informatics, professional field 4.3. "Biological Sciences", scientific specialty "Biophysics", announced in GN no. 32 / 16.04.2021 from SU "St. Kliment Ohridski "

1. Common part

The competition for the academic position of "Associate Professor" in professional field 4.3 "Biological Sciences", specialty "Biophysics" will be announced in SG no. 32 / 16.04.2021 for the needs of the Department of Biophysics and Radiobiology at the Faculty of Biology of Sofia University "St. Kliment Ohridski ". The only candidate in this competition is Assistant Professor Margarita Angelova Kuzmanova. The review of the submitted documents shows that the competition procedures have been followed, as well as that the documents meet the requirements of the Law for Development of the Academic Staff of the Republic of Bulgaria and the Regulations for its implementation.

2. Biographical data about the candidate

Assistant Professor Margarita Kuzmanova graduated with a bachelor's degree from the Faculty of Biology at Sofia University "St. Kliment Ohridski " with a master's degree in "Teacher of Biology and Chemistry" in 1981. From the same year he worked as a teacher of biology, chemistry and geography, then in "Vinprom" Sofia and MK "Kremikovtsi". In the period 1987-1989 he was a specialist biologist, from 1999 to 2002 he was a senior assistant, and from 2002 - until now Assistant Professor at the Department of Biophysics and Radiobiology, Faculty of Biology, Sofia University "St. Kliment Ohridski". In 1997, the Higher Attestation Commission awarded her ESD "Doctor" in the scientific specialty "Radiobiology" (code 01.06.09.) For a dissertation on "Study of the biological action and evaluation of the radioprotective effectiveness of millimeter electromagnetic waves."

3. Scientific works

3.1. Overview of scientific papers and their citation. Assistant Professor Margarita Kuzmanova has 52 scientific publications. Of these, 23 are in periodicals, 8 - book chapters, 12 - full-text articles from international conferences and 8 - from national scientific forums. In 24

publications Assistant Professor Margarita Kuzmanova is the first author. Thirteen publications are in journals with impact factor (IF) or impact rank, some of which are among the best in the field of biophysics, plant sciences and others.

Assistant Professor Margarita Kuzmanova participated in this competition with 19 publications. They are all in the field of competition. Of these, in magazines with Q1 are 7, with Q2 - 2, with Q3 - 2, with Q4 - 1, two are in magazines without quartiles for the year of publication and 5 are book chapters. A total of 350 citations of publications of Assistant Professor Margarita Kuzmanova, 292 of them appear in the Scopus system after the elimination of auto-citations, which is 6 more than the ones she presented for the Scopus and Web of Science systems. Her personal h-index in Scopus is 5. The intensive and quality publishing activity in the last 2 years (four publications in 2020 and 1 in 2019 and in 2018 in authoritative international journals) suggests that these scientometric indicators will increase significantly in the near future.

3.2. Evaluation of scientific contributions. The contributions of Assistant Professor Margarita Kuzmanova are related to the biological effects of the permanent magnetic field on the lability and transport processes across the erythrocyte membrane, as well as the interaction of lectin with it. It has also been shown that the effects of high-frequency low-intensity electromagnetic fields depend on the irradiation time, the field parameters, the time after irradiation and the amount of water in the suspension.

The other main direction in the research activity of the candidate in this competition is registration and analysis of biophysical parameters of photosynthesis. Strasser's JIP test method has been modified, which registers the rapid chlorophyll fluorescence as an effective approach for reporting photosynthetic reactions in normal, under various stress effects - intense electromagnetic fields, elevated temperatures, deficiency of micro- and macroelements, etc. I accept the submitted contributions.

3.3. Participation in research projects. Assistant Professor Margarita Kuzmanova has significant experience in research and design. She has led 2 research projects at the NSF at Sofia University "St. Kliment Ohridski ", has participated in two national and three international scientific or educational projects.

3.4. Other activities. Assistant Professor Margarita Kuzmanova has participated in the organizing committees of three scientific events in the country. She was a member of the Commission for organizing and conducting the National Competition in Natural Sciences and

Ecology of the Ministry of Education and Science in the period 2012-2020. In addition, she helped to promote the Faculty of Biology and Natural Sciences in general during the periodic Open Days in Biology. faculty, etc. No data for membership in companies in the field of the competition are presented.

Conclusion

The candidate in this competition has significant scientific creativity, participation in scientific projects, has a number of significant scientific and scientific-applied contributions, sufficient citations and participation in scientific forums. These activities meet the criteria for "associate professor" of the Law for development of the academic staff of the Republic of Bulgaria, of the Regulations for its implementation. All this gives me reason to convincingly recommend to the esteemed Scientific Jury to vote FOR the election of Assistant Professor Dr. Margarita Angelova Kuzmanova for "Associate Professor" in the professional field 4.3. "Biological Sciences", scientific specialty "Biophysics" for the needs of the Faculty of Biology of Sofia University "St. Kliment Ohridski ”.

Signature:

Sofia, July 13, 2021

(Prof. Dr. Hristo Gagov)