

OPINION

in a competition for the academic position of associate professor
in the specialty "Parasitology and helminthology",
SG №30 of 13 April 2021
with candidate Ivelin Angelov Vladov, PhD, Assistant Prof.
by Prof. Ludmil Penchev Kirazov

The competition for the academic position of associate professor in the scientific field 4.3. Biological sciences, specialty "Parasitology and helminthology" (01.06.19), was announced for the needs of the section "Experimental parasitology" at IEMPAM-BAS.

The only candidate in the competition is Assistant Professor Dr. Ivelin Angelov Vladov. The procedure for opening and announcing the competition has been followed. The candidate has submitted all the documents required by law to participate in the competition.

Ivelin Vladov graduated in 2005 with a master's degree in Environmental Protection from Sofia University. Since 2008 he has been working in IEPP, which after unification was transformed into IEMPAM-BAS. In 2016 he defended his dissertation on the topic: "Molecular and clinical studies of parasites of the genus Eimeria in an experimental model in rabbits." He has 14 years of work experience in the specialty.

The candidate has presented the equivalent of a habilitation thesis from 4 publications in publications, which are referenced and indexed in world-famous databases with scientific information. He participates in the competition with 20 articles and reports published in scientific journals, referenced and indexed in Web of Science and Scopus and 78 articles and reports published in non-refereed journals or published in edited collective volumes. He has 81 citations in international scientific journals and in dissertations. He has participated in 119 scientific forums with 67 oral presentations and 52 posters. The presented materials meet and exceed the minimum required points for the groups of indicators in the professional field "Natural Sciences, Mathematics and Informatics".

Dr. Vladov has participated in 22 research projects funded by various sources (NSF, MES, EBR of BAS, projects with Sofia University). He has extensive expert work as a system administrator and responsible for the vivarium at IEMPAM, a member of a number of committees and a member of the organizing committees of 20 national scientific forums.

In his research work assist. Prof. Vladov uses a wide range of research methods to conduct research in the field of toxicology, molecular biology, biochemistry, medical elementology and ecology.

It was found that treatment of mice with the essential trace element cobalt resulted in significant metabolic changes in the serum of immature mice, affecting parameters such as alkaline phosphatase, urea, cholesterol and total protein. In the early postnatal development there is an increase in the level of cobalt in a number of organs and in the serum and in them there is a significant increase in the content of Fe, Cu, Mn and Zn. Perinatal treatment with CoCl_2 also leads to changes in hematological parameters and iron content. These studies are of practical importance for elucidating the effect of cobalt intake as a dietary supplement and its application in the pharmaceutical industry. Acute intoxication with the widely used compound sodium nitrite has also been shown to alter the endogenous levels of a number of metals and hence to disrupt ionic homeostasis and the action of a number of enzymes.

For the first time, salinomycin has been shown to significantly reduce the content of lead ions in the heart and lungs and can be used as an antidote to lead poisoning.

Of great practical importance is the development of new biomaterials used in medicine as implants for bone reconstruction and a system for testing their effectiveness and the bone response.

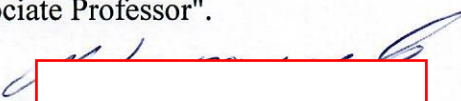
In the field of ecology, the study of the small mammal - endoparasite system as an indicator of environmental pollution with heavy metals is relevant.

All these studies have a practical relevance and can be applied in practice. Unfortunately, due to the limited scope of the opinion, I cannot cover all the contributions of Dr. Ivelin Vladov.

CONCLUSION:

The candidate has a clearly defined profile of the research work in the field of the announced competition. The presented materials cover the requirements of the Law for the development of the academic staff in the Republic of Bulgaria and of the regulations of IEMPAM. This gives me grounds to give a positive assessment and to recommend to the Scientific council of IEMPAM-BAS to vote for the election of Assistant Professor Ivelin Angelov Vladov to the academic position of "Associate Professor".

12.08.2021


Prof. L. Kirazov