

Preface

Federal State Budget Scientific Institution All-Russian National Research Institute of Viticulture and Winemaking Magarach of the Russian Academy of Sciences (FSBSI Institute Magarach of the Russian Academy of Sciences) is one of the oldest leading agricultural scientific institutions in the Russian Federation. The International Scientific and Practical Conference "**Modern trends of science and innovative technologies in viticulture and winemaking**" (MTSITVW 2023) was held on September 4-8, 2023. It was dedicated to the 195th anniversary of the FSBSI Institute Magarach of the Russian Academy of Sciences.

The main directions of the International Scientific and Practical Conference were the following:

- natural resources, ecology and geoinformatics;
- genetic resources, genetics, genomics, bioengineering and breeding;
- ampelocenos and agritechnological systems of cultivation;
- plant protection and quarantine;
- biotechnologies in viticulture and winemaking, organic farming;
- storage, processing and product quality management;
- strategies and technologies of winemaking with a protected geographical indication and eco-friendly status;
- new functional food products;
- production control and product identification systems;
- digitalization of viticulture and winemaking: information systems, artificial intelligence, IT technologies.

The main goal of the Conference was the formation of development concept of fundamental, exploratory and applied researches in agricultural sciences and innovative technologies.

Leading Russian and foreign scientists participated in the discussion of topical issues of agricultural development from Pridnestrovie State University (Republic of Moldova, Tiraspol); Vivai Cooperativi Rauscedo (Italy); Agricultural University of Plovdiv (Bulgaria, Plovdiv); Polessky State University (Belarus, Pinsk); University of Peloponnese (Greece, Kalamata); Institute of Molecular Biology of the National Academy of Sciences of the Republic of Armenia (Armenia, Yerevan); Scientific Center of Agrobiotechnology, a branch of National Agrarian University of Armenia (Armenia, Yerevan), and many other leading scientific institutions of Russia. In total, the Conference was attended by more than 300 participants.

The work of the Conference was focused on scientific and practical novelty of the presented materials, identification of trends in the development of fundamental sciences, fruitfulness of discussions, innovative potential of science and its implementation in business production.

The academic community of the Institute Magarach of the Russian Academy of Sciences

expresses sincere gratitude to all the participants, experts, moderators, editors of the Conference for their contribution and shown interest. We are confident that thanks to such joint fruitful work of scientists from different countries, the Conference was held at a high level and was positively evaluated both in Russia and abroad.

We hope for further fruitful cooperation!

With best wishes, the Academic Community of the Institute Magarach of the Russian Academy of Sciences!

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Chairman of the Organizing Committee, Editor of Conference Materials

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