Preface

The All-Russian Scientific Research Institute for Selections of Fruit Cultures is the most important Russian institute of gardening, which conducts selection work using contemporary and advanced methods as well as techniques with the creation of highly adaptive, competitive and cost-efficient advantageous varieties. With the joint participation of the leading agrarian University of Russia - Ural State Agrarian University, an International Research and Practical On-line Conference “FUNDAMENTAL AND APPLIED RESEARCH STUDIES IN BIOLOGY AND AGRICULTURE: TOPICAL ISSUES, ACHIEVEMENTS AND INNOVATIONS”, February 24-25, 2021 was held. The main directions of the conference were dedicated to the following questions: genetic resources as a basis for selection and seed farming in the development of organic agriculture; adaptation mechanisms and ways of their regulation in plants; genetic engineering methods and techniques in the creation of new forms of plants; the importance of biotechnology in obtaining high quality virus-free material; biologization of agriculture as a mechanism for the formation of soil fertility; botanical gardens, arboreturns as important centers for the study and preservation of biodiversity; energy-saving technologies in the agro-industrial complex; scientific support of innovative development of livestock development; topical issues of veterinary medicine, and a crucial component - the importance of economic science in ensuring sustainable development of agriculture.

The event was focused on discussing and solving priority research and practical challenges in biology and agriculture in view of global trends. Within the framework of presentations, different research issues were touched. It indicates their many-sidedness, complexity, and potential and significance for global science and economy. Agreements were reached on strengthening of international scientific collaboration, engagement of key scientists and experts (both Russian and foreign) in specialized fields of collaborative work.

Organizational and scientific committee would like to thank speakers and audience members for their interest in the work of video conference.

The conference was held at a high level and received positive feedback both in Russia and abroad.

We hope for further cooperation! See you next time at forums, conferences and symposiums.

Videos available at <https://farba.vniispk.ru>

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