

MD.73.

Title **Adjusting sustainable and ecological technologies of fruit production in quantitative and qualitative aspects depending on the integrity of the culture system and climate change**

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Climate change is one of the major challenges of our century and the effects of climate change on the anthropic ecosystems represent an alarming concern. Based on these assumptions, the present research project aims to evaluate the agro-biological potential of some varieties of **apricot, plum, sweet cherry, apple, walnut, raspberry and blackberry** in the context of the current climate changes in order to establish a range of cultural assortments and cultivation technologies that will allow achieving sustainable and competitive ecosystems.

Description
EN The research objectives are focused on the growth and improvement of the research-development activity by accumulating fundamental knowledge, on developing solutions for sustainable ecosystems by choosing the most adapted apricot, plum, sweet cherry, apple, walnut, raspberry and blackberry varieties for each studied area and on adjusting appropriate cultivation technologies.

The solutions to the research problems addressed in the project will contribute to the modelling of the plantation structure, the programming of higher yields appropriate to the production conditions, the development of operating techniques during the harvesting and post-harvesting period of fruits, as well as ensuring sustainable agriculture, food security and food safety.

The team will coordinate its activities with **APEF „Moldova fruct”, UAPCN „Asociația Nucicultorilor din Moldova”, Public Institution „Laboratorul central fitosanitar”**, will have a close collaboration with the associations of agricultural producers in order to avoid duplication of efforts and to achieve a positive synergy in pursuit of common goals. *Within the project 18,817.05.29A 7 patents were elaborated: MD 1189, 1190, 1229, 1230, 1442, 1443, 1450*

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3. Agriculture and Food Industry