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# INNOVATIVE APPROACHES OF UKRAINIAN CHEMISTS TO SOLVE THE PROBLEMS OF THE FOOD INDUSTRY IN THE 19th – AT THE BEGINNING OF THE 20th CENTURY

## Summary

*The article is devoted to revealing the contribution of chemical scientists to the development of the food industry in the territory of Ukraine during the period of the 19th – early 20th centuries. The events related to the rapid development of industry and, in particular, the food production during the specified period, were studied. It was found that the food industry occupied an important place in the economy of the Russian Empire at that time, and sugar production was one of the most significant industries. It is shown that the activation of scientific life in the second half of the 19th century was caused by the growth of the economy, in particular, the needs of agriculture and processing of agricultural products. Special attention is paid to highlighting the contribution of chemical scientists to solving the problems of growing and processing agricultural products. The role of patrons in the organization of scientific events and the formation of higher educational institutions, necessary for the preparing personnel of the relevant profile, is emphasized. The activities of prominent representatives from chemical science, such as P. P. Alekseev, M. A. Bunge, O. A. Verigo, P. G. Melikov, V. M. Petriev and others, are analysed. Several aspects of the activities of native scientists-chemists in the field of agriculture as the sugar industry, cultivation and processing of grapes, production of wines, beekeeping products, researching natural resources are considered. The importance of measures proposed by our scientists and aimed at strengthening the country's economy, such as increasing the yield of agricultural crops, import substitution, manufacturing export products, is noted. Developments of Ukrainian chemists in the field of university education with the aim of proper training of students – future specialists in the field of agriculture – are described. The importance of studying the experience of scientists from the researched period for solving modern problems, such as product quality control, improvement of relevant legislation, interaction of state bodies and scientific institutions, policy in the field of education, etc., is emphasized.*

**Keywords:** *sugar beet industry, winemaking, beekeeping, cheese making, biochemical methods in agronomy, falsification of products, food laboratories.*