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PROFESSOR M.R. KOZACHENKO: LIFE IN SCIENCE

(to the 80th anniversary of the birthday)

Summary

In the work the modern methods of usage, reproduction and management of breeding resources of the Plant Production Institute nd. a. V.Ya. Yuryev of NAAS are examined. The course of life and creative career of a prominent home scientist who is famous worldwide in the field of plant breeding and genetics Mychailo Romanovych Kozachenko is analyzed. Periodization of barley breeding in the Plant Production Institute nd. a. V.Ya. Yuryev of NAAS is viewed. A key historical role of the scientist who conducted researches with such agricultural crop as spring barley (*Hordeum vulgare* L.) is proved. Important achievements of the research work of laboratory staff for more than a centenary period are showed.

The aim of the article is the research on the basis of archival documentation and published scientific papers of M.R. Kozachenko disclosure of his role as a scientist, popularizer and one of the organizers of scientific support of farming in the Plant Production Institute nd. a. V.Ya. Yuryev during 1965–2018.

In the work the foundation and activity of Institute of Genetics and Selection of Academy of Sciences of Ukrainian Soviet Socialistic Republic, Ukrainian scientific-research institute of plant growing, genetics and selection nd. a V.Ya. Yuriev in city Kharkiv Mychailo Romanovych Kozachenko is interpreted. The course of life and creative development of a famous home scientist who is famous worldwide in the field of biology and agriculture is analyzed.

A number of regularities on pairs selection in hybridization, heredity and changeability of the main economically valuable symptoms of hybrids, on genetics of quantitative symptoms of barley were set up by him, methods of increasing of the effectiveness of selection were worked out. The scientist's researches in creation of valuable sorts of barley were based on the improvement and development of the new methods and researching of the regularities of a special genetics of barley. A number of regularities on pairs selection in hybridization, heredity and changeability of the main economically valuable symptoms of hybrids, on genetics of quantitative symptoms of barley were set up by Mychailo Romanovych, methods of increasing of the effectiveness of selection were worked out. In the article three periods of the existence of the laboratory are distinguished.

For the first 50 years of barley selection (1910–1960) 6 sorts were regionalized, during 1960–1985 – 5 sorts, in 1985–2000 – 10 sorts. And in 2002–2010 – 10 sorts, in 2011–2017 – 9 sorts were regionalized. These data indicate that intensity of barley selection grew notably, in spite of almost half reduction of the laboratory's collective. This was promoted by theoretical elaborations of the laboratory. The scientist is the author of 29 sorts of barley. A great merit of Mychailo Romanovych is in training of young scientists.

Key words: *M.R. Kozachenko, spring barley, selection, genetics, hybridization, mutagenesis, sort.*