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**ANDREY SAPEGIN – FOUNDER OF THE BASES OF SCIENTIFIC
SELECTION IN THE SOUTH OF UKRAINE**

Summary

The history of the experimental field and the selection department in Odessa, way of life of the breeder, geneticist, academician and vice-president of the Academy of Sciences USRR – A. Sapegin is observed. The Free Economic Society (1885) was initiated the creation of an experienced institution in South Russia. This initiative was supported by the Society of Agriculture of South Russia (1885) and scientists from Novorossiysk (Odessa) University (1888). In the same year special commission was established preparing materials on the organization of the experimental station. Only seven years later (1895), and due to lack of funds, instead of the experimental station was established experimental field with 25 acres of land and in 1912 in the experimental field was discovered breeding department.

The breeding department was headed by Assistant Professor University of Novorossiysk A. Sapegin thanks to his talent and organizational skills. Despite poor funding, limited land area (400 m²) A. Sapegin understand that success in breeding is only possible through the study and included in the selection process a large amount of starting materials – varieties of populations and expansion of the areas under the experiments. For this purpose he had a large collection of local and foreign varieties, has made expansion of the areas of breeding material with

400 m² (1912) to 35 hectares (1916), to increase the funding from 600 rubles (1912) to 75 thousand rubles in 1916, the construction of breeding premises. First, the main method of selection was the individual selection of varieties of populations, which the theoretical basis was the theory of pure lines by V. Johansen, and since 1915 have been widely used inter-varietal, inter-specific and inter-generic crossbreeding (soft wheat / soft, durum wheat / soft; wheat / wheatgrass), began the study of these hybrids, and since 1927 – Roentgen mutations plants.

Thanks to the hard work of the staff of the selection department and A. Sapegin were created and implemented in the production of well-known varieties of winter wheat – Kooperatorka, Zemke, Stepnyachka, spring wheat – Chernouska 00122, Arnautka 0012, Girka 00274, Ulyana00414, spring six-row barley – Pallidum 32. Every year variety Kooperatorka held more than 5 million hectares and barley Pallidum 32 – 700 thousand hectares.

For achievements in breeding small first selection department in the experimental field is converted to the Odessa Breeding Station (1918), Odessa Regional Agricultural Breeding Station (1923), Ukrainian Genetic-Breeding Institute (1927), All-Union Institute of Breeding (1934) (now the Institute of Breeding – National Center of Seed Keeping and Cultivar Investigation NAAS).