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	TABLE OF CONTENTS	
1.	AGRICULTURAL SCIENCES Hryshchenko V. O., Boyko I. I., Mandrovska S. M. PROSPECTS FOR THE DEVELOPMENT OF RENEWABLE	13
2.	ENERGY SOURCES IN UKRAINE Shokh S. S., Karpuk L. M., Shubenko L. A. ENVIRONMENTAL PLASTICITY OF WINTER RAPE VARIETIES IN TERMS OF YIELD	19
3.	Оленіч О. А. СТВОРЕННЯ НОВИХ ПЕРСПЕКТИВНИХ СОРТІВ ХРИЗАНТЕМИ В УМОВАХ ЛІСОСТЕПОВОЇ ЛІВОБЕРЕЖНОЇ ПРОВІНЦІЇ В ВОРСКЛО-СУЛЬСЬКОМУ ОКРУЗІ УКРАЇНИ	22
	VETERINARY SCIENCES	
4.	Яценко І. В. ВПЛИВ НОВІТНІХ НАУКОВИХ ЗДОБУТКІВ ХАРКІВСЬКОЇ НАУКОВОЇ ШКОЛИ СУДОВО-ВЕТЕРИНАРНИХ ЕКСПЕРТІВ НА ЕФЕКТИВНІСТЬ ПРИЗНАЧЕННЯ ТА ПРОВЕДЕННЯ СУДОВО-ВЕТЕРИНАРНОЇ ЕКСПЕРТИЗИ	27
5.	BIOLOGICAL SCIENCES Алекперов Р., Гусейнова И., Мирджалаллы И. БИОМОРФОЛОГИЧЕСКИЕ ХАРАКТЕРИСТИКИ, ФИТОХИМИЧЕСКИЙ СОСТАВ И ПРЕИМУЩЕСТВА ВИДА ЕРНЕDRA EQUISETINA BUNGE	45
	MEDICAL SCIENCES	
6.	Adarsh Kumar Bussa, Rash Ha Sheikh, Grigoryan A. EFFECTS OF E-CIGARETTES AND NICOTINE POUCHES ON HUMAN HEALTH	50
7.	Ivanov V. P., Zakrevska M. M. CLINICAL PROFILE OF PATIENTS WITH HYPERTENSION AND ATRIAL FIBRILLATION BY RELATIVELY LOW SERUM NTpro- BNP LEVELS	55
8.	Khakimova G. A., Dusmuratova Durdonaxon Mirzailxom qizi TO THE QUESTION OF CARDIOVACULAR PATHOLOGY IN THE ASPECT OF PATHOPHYSIOLOGY	60
9.	Makhlynets N., Pavlyshyn M., Ozhogan Z. INFLUENCE OF ORAL HABITS ON THE DEVELOPMENT OF ACQUIRED DEFORMATIONS IN THE MAXILLOFACIAL AREA	65
10.	Malinovskii V. A., Kuliuda V. E.	68

IMMUNOSUPPRESSIVE THERAPY AND HEMATOPOIETIC STEM CELL TRANSPLANTATION IN THE TREATMENT OF

APLASTIC ANEMIA

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ENVIRONMENTAL PLASTICITY OF WINTER RAPE VARIETIES IN TERMS OF YIELD

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Abstract: In modern conditions of climatic variability, the main requirement for rape varieties is the ability to form high yields in arid conditions, to tolerate difficult winter periods in different natural and climatic conditions.

Keywords: rapeseed, weather conditions, population, yield, environmental plasticity.

In recent years, weather conditions in Ukraine, and in particular at the BNAU experimental field, have been characterized by sharp changes from dry conditions to waterlogging in spring, hot periods in summer, uneven snow cover, ice crust formation, and temperature changes during winter. Winter rapeseed is a moisture-loving crop with low winter hardiness, which does not tolerate sudden changes during critical periods of growth and development. The creation of winter rape starting material using provocative backgrounds makes it possible to obtain new varieties ecologically adapted to adverse conditions [4-5].

For breeding purposes, populations of winter rape with high ecological plasticity that exhibit high yields over generations are valuable. Yield is a complex trait that is determined by a certain level of simple traits. Such as the number of seeds per pod, weight of 1000 seeds, number of pods per shoot and per plant and their

interaction [6, p.13]. The inheritance of such a complex trait as yield occurs under systemic polygenic control and has a complex inheritance of each of the simple traits. Evaluation by traits includes a comprehensive approach to determining the critical level of factors that affect the yield of winter rape [1-3].

The purpose of the research was to identify varieties with high frost resistance and comprehensive yields in drastically different environmental conditions in recent years. The study of the working collection of 52 varieties showed that in terms of the manifestation of simple traits in sharply different weather conditions, varieties of Ukrainian and German selection had higher performance than varieties of other origin. In terms of frost resistance, most of the varieties had low and medium resistance - from 4 to 6 points on a nine-point scale. The Landar, Nelson, and Cs45 varieties had high frost resistance - 7.5 to 8.1 points. The ability to compensate for frozen shoots by forming new shoots when the period favorable for growth and development occurs indicates that these samples are more plastic in winter, which will be used in further work. According to a simple trait - the number of seeds per pod, the Nelson variety and the A80, A84 populations outperformed the standard and other samples of the collection in terms of the number of seeds - 25-35 seeds per pod. The variation of the trait also depends on unfavorable conditions, and samples with medium and high levels of the trait formed under unfavorable conditions are valuable for breeding work.

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