

## **Monitoring of adventitious species of Ukrainian flora: barcoding, genetic variability and invasive potential**

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The negative impact of invasive species on the environment is a problem of global importance. However, the theoretical basis of this phenomenon is still insufficiently studied. Accordingly, in the project molecular methods will be applied to reveal the genetic basis of biological invasions and ensure effective monitoring of adventitious species of the flora of Ukraine. For this purpose, selected regions of the chloroplast and nuclear genomes will be sequenced and compared, a set of molecular barcoding methods will be developed and tested for representatives of the genera *Galinsoga*, *Heracleum*, *Impatiens* and *Reynoutria*. For the studied invasive species, new intraspecific forms (local races) and interspecific hybrids will be identified, their invasive potential and the degree of penetration into natural plant communities in different regions of Ukraine will be determined.