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### Species diversity of Drosophilidae from Poland and Ukraine

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Lately, global climate has been observed on the planet, causing changes in the biological diversity both in global and in local contexts. In addition, the distribution of *Drosophilidae* species in some regions of Europe still need following investigations. In particular, until recently, the *Drosophilidae* fauna Poland has been represented only in three papers and concerned *Drosophila sukuzii*. In our study during 2015 - 2017 we try to start a list of *Drosophilidae* species from Poland and enlarge it for Ukraine.

The collection of flies from natural populations was conducted from the next localities: Cooling pond, Chornobyl, Pripyat', Kopachi, Yaniv (Chornobyl Nuclear Power Plant region), Varva, Uman', Uman'-K, Dmytrushky, Odesa, Kyiv, Kaniv, Krasylivka, Pyryatyn, Kharkiv, Drohobych, Yalta (Ukraine) and Zielona Gora, Brzezina, Brzezina-2 (Warmian-Masurian Voivodeship), Lublin, Lublin-2 (Poland). For collectiong *Drosophila* were used fly-traps.

In both countries we have identified the following species: *Drosophila busckii*, *Drosophila hydei*, *Drosophila immigrans*, *Drosophila melanogaster*, *Drosophila obscura*, *Drosophila phalerata*, *Drosophila repleta*, *Drosophila simulans*, *Drosophila subobscura*, *Drosophila sukuzii*, *Drosophila testacea*. However there are some differences, for example, in Ukraine we also identified *Drosophila funebris*, *Drosophila cameraria*, *Drosophila kuntzei*, *Drosophila transversa*, *Drosophila confusa* and in Poland - *Drosophila helvetica*, wich was not found in Ukraine to date. We did not find any species of *Drosophilidae* in Ukraine that would not have been detected in previous studies (2014). Thus, can be argued that the species diversity of the *Drosophilidae* of both countries is characteristic of the Palearctic.