

## Working group N°6 (poster)

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Species diversity of plant-inhabiting phytoseiid mites (Parasitiformes, Phytoseiidae) in botanical garden of Karasin National university of Kharkov (Ukraine)

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The specific structure of phytoseiids in a decorative and recreational plantings particularly in plant communities of botanical gardens where introduced plants make an considerable part of phytocenosis insufficiently investigated. The drift of new predatory species to artificial plant associations can cause not only quantitative changes in aboriginal mite associations, supplementing them with new species, but also qualitatively and numerically change efficiency of their functioning, in particular, to raise a degree of security of plants from the pests.

The species diversity and distribution of plant-inhabiting phytoseiid mites (Parasitiformes, Phytoseiidae) in botanical garden of Karasin National University of Kharkov (Ukraine) were studied. Eighteen phytoseiid species were found. Species occurrence of phytoseiid mites and relative fidelity of them to plant life were investigated.

Complexes of plant predatory mites of family Phytoseiidae can give a basis for expansion of searching of effective predators and their further using in a biological control of plant pest.