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# **INVASION OF ALIEN SPECIES IN HOLARCTIC. BOROK-VI**

Sixth International Symposium.  
Book of abstracts

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The book represents proceedings of Sixth International Symposium “Invasion of Alien Species in Holarctic. Borok -VI” (11 Oct. – 15 Oct. 2021, Borok – Uglich, Russia). The wide spectrum of problems related to appearance and spread of invasive plants and animals is discussed. The book may be interested for specialists in many fields, such as limnologists, hydrobiologists, ecologists, botanists, zoologists, geographers, managers of dealing with nature preservation and fisheries.

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**HOST PLANTS OF *CUSCUTA LUPULIFORMIS* KROCK. IN THE TOMSK REGION**

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The parasitic weed species is common agricultural weed throughout the world, causing reductions in yield of many crops and if infestation is heavily, causes the death of host (Salgude et al., 2015). The study of the evolution of the system of consort relationships of invasive species and the assessment of the role of this factor in the further expansion of introduced species is one of the priority tasks of invasive biology.

To study the consort relationships of the dodder *Cuscuta* spp. with host plants, more and more attention is being paid in our country (Aistova, 2012) and abroad (Baráth, Csiky, 2012; Kaiser et al., 2015; Panek-Wójcicka, Piwowarczyk, 2020; Krasylenko et al., 2021).

*Cuscuta lupuliformis* Krock. included in "Black Book of the flora of Siberia" (2016). The study of consort relationships with host plants of *Cuscuta lupuliformis* was conducted by us in Tomsk, its surroundings and on the territory of the Tomsk Region in June-August 2020. A total of 10 populations were examined.

Among the possible host plants of the dodder, we counted 63 species of vascular plants (61 species of flowering plants) belonging to 56 genera from 30 families. 15 species are arboreal (including shrubs). 4 species are invasive for Siberia (*Acer negundo* L., *Conium maculatum* L., *Impatiens glandulifera* Royle, *Lactuca serriola* L.). In the studied populations, the number of plant species to which *Cuscuta lupuliformis* was attached with the formation of gaustoria ranges from 2 to 25. In each habitat, woody (shrubby) and herbaceous plants are necessarily present, which confirms the data that the presence of hosts of both life forms is necessary for the development of *Cuscuta lupuliformis* (Zhuk, 2000). The plants of the Asteraceae family (10 genera, 11 species), Rosaceae (6 genera, 7 species), Poaceae (4 genera, 5 species), Lamiaceae (4 genera, 4 species) and Salicaceae (2 genera, 3 species) are the most numerous in terms of the number of genera and species among the potential hosts of the dodder *Cuscuta lupuliformis* in the Tomsk Region. To establish a more accurate list of hosts, further studies (including the study of the anatomical structure of the contact zone of the parasite with the host) of these populations of the dodder *Cuscuta lupuliformis* are necessary.

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