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SHORT COMMUNICATION

Invasive insect pests of introduced plants of the “Olexandria” Dendrological Park. Report 4: The first record of pale Japanese elm aphid *Tinocallis* (*Sappocallis*) *nevskyi* Remaudière, Quednau & Heie, 1988 (Hemiptera, Aphididae) from Ukraine

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Abstract

For the first time in Ukraine, the invasive aphid species *Tinocallis nevskyi* is reported for the “Olexandria” State Dendrological Park, Kyiv region. It was detected on *Ulmus parvifolia* and *U. scabra*.

Keywords: *Tinocallis nevskyi*, *Tinocallis takachihoensis*, *Tinocallis platani*, *Ulmus parvifolia*, *Ulmus scabra*, first record, invasion

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The pale Japanese elm aphid, *Tinocallis* (*Sappocallis*) *nevskyi* Remaudière, Quednau & Heie, 1988, belongs to the subfamily Calaphidinae Oestlund, 1919. This species was first described by Remaudière et al. (1988), who distinguished it from *T. saltans* (Nevsky, 1929) with which it had previously been confused.

Tinocallis nevskyi originated in Central and South-West Asia but has spread across much of Europe. It occurs in central, western, and northern parts of Europe (Kanturski et al., 2018). In some European countries, *T. nevskyi* is now among the most common aphid species. Examination of external sources (GBIF, 2025; iNaturalist, 2025; InfluentialPoints, 2025) showed that it has not been reported in Ukraine to date.

We discovered *T. nevskyi* (Fig. 1) in the “Olexandria” State Dendrological Park plantings in June 2025. The identification

of this species was based on morphological descriptions provided by Kanturski et al. (2018). The range of its food plants, its prevalence and abundance in park plantings, and some features of its seasonal development were studied. It has been established that this species inhabits two types of elm trees: *Ulmus parvifolia* Jacq. and *U. scabra* Mill. The aphid population is very small on both plant types. This species of aphids is found only in the eastern part of the arboretum, bordering urban plantings, where its population is slightly higher. The damage caused by this phytophagous insect to elm trees is very insignificant. Another invasive species of this genus, *T. takachihoensis* Higuchi, 1972, is much more common in park plantings. It is interesting to note the absence of the local species *T. platani* Kaltenbach, 1843, in park plantings at the same time.

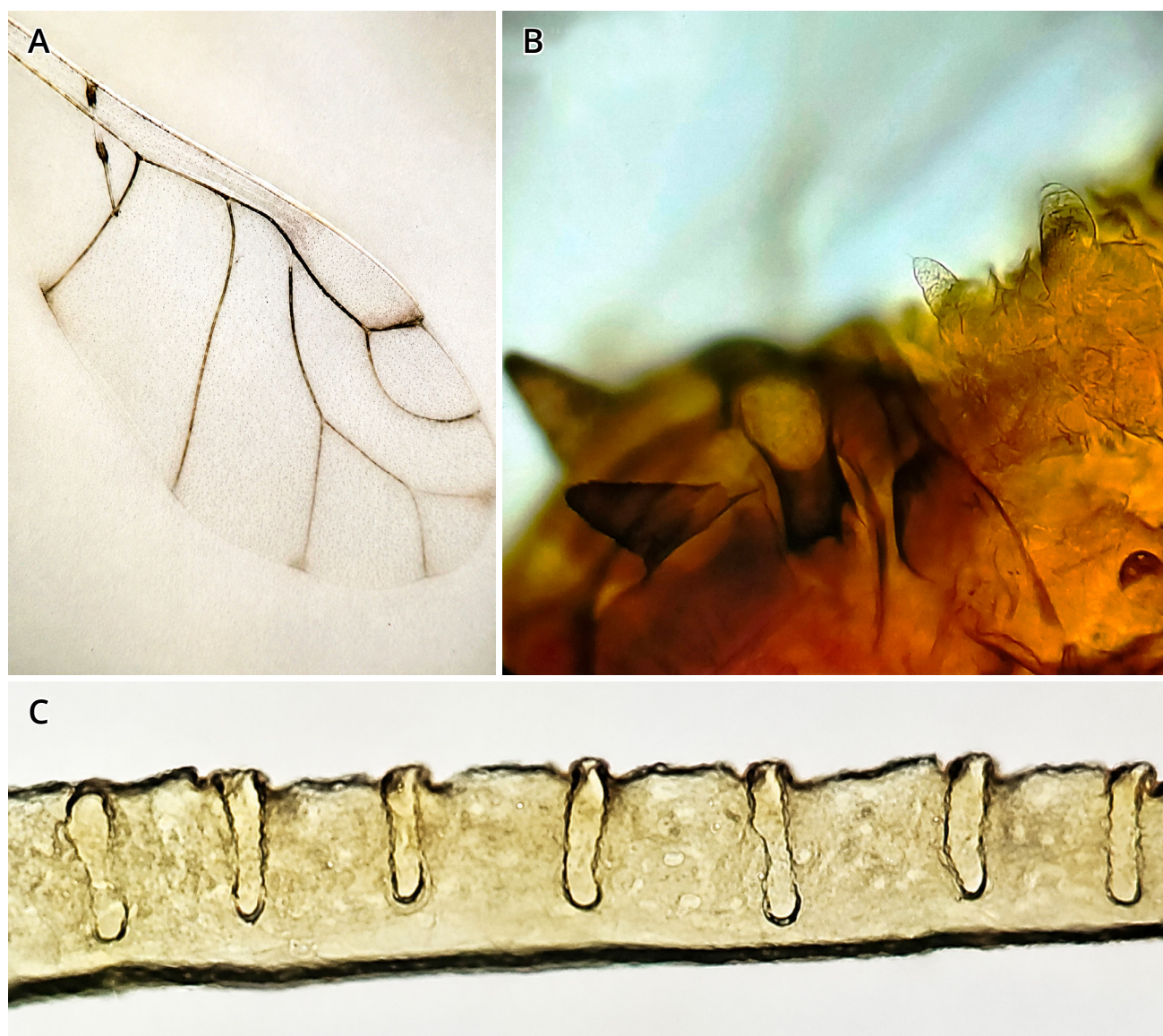


Figure 1. *Tinocallis nevskyi*: **A** – front wing; **B** – pronotum and mesonotum; **C** – third segment of the antenna with secondary slit-like rhinaria.

When studying the characteristics of seasonal development, two forms of winged viviparous females were identified. The first form (Fig. 2A) with less sclerotization of the body was found in summer and in the first half of autumn. The second, more sclerotic form of winged females (Fig. 2B) appeared in the fall. Wingless oviparae appeared in October. Oviposition occurred at the end of October.

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Figure 2. *Tinocallis nevskyi*: **A** – summer form of winged viviparous females; **B** – autumn form of winged viviparous females.

**Інвазійні види шкідників інтродукованих рослин дендропарку “Олександрія”.
Повідомлення 4. Перше повідомлення про знахідку блідої японської в'язової
попелиці *Tinocallis (Sappocallis) nevskyi* Remaudière, Quednau & Heie, 1988
(Hemiptera, Aphididae) в Україні**

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Уперше повідомляється про виявлення в Україні інвазійного виду попелиць *Tinocallis nevskyi*, який було зареєстровано в дендропарку “Олександрія” Київської області на *Ulmus parvifolia* та *U. scabra*.

Ключові слова: *Tinocallis nevskyi*, *Tinocallis takachihoensis*, *Tinocallis platani*, *Ulmus parvifolia*, *Ulmus scabra*, перша знахідка, інвазія