

Fomenko M. First find of *Naohidea sebacea* (Basidiomycota, Fungi) in Ukraine // Proceedings of IVth (XVth) International Scientific Conference of Young Scientists “Scientific Principles of Biodiversity Conservation” (Lviv, 28 October 2021). – Lviv: Institute of Carpathian Ecology of the National Academy of Sciences of Ukraine, 2021. – P. 108-109.

---

M.I. ФОМЕНКО

**ПЕРША ЗНАХІДКА *NAOHIDEA SEBACEA* (BASIDIOMYCOTA, FUNGI) В УКРАЇНІ**

Харківський національний університет імені В.Н. Каразіна, м. Харків  
e-mail: m.fomenko.2734@gmail.com

M. FOMENKO

**FIRST FIND OF *NAOHIDEA SEBACEA* (BASIDIOMYCOTA, FUNGI) IN UKRAINE**

V.N. Karazin Kharkiv National University, Kharkiv

Rare fungicolous fungus *Naohidea sebacea* (Berk. & Broome) Oberw. from the territory of Natural Reserve «Roztochchia» is registered in Ukraine for the first time. Its host fungus was identified as *Dothiorella iberica* (Fr.) A.J.L. Phillips, Luque & Alves (= *Botryosphaeria iberica* A.J.L. Phillips, Luque & Alves). Information about the ecology and geographic occurrence of this species is discussed.

After the taxonomic revision inside *Platygløea* s.l. provided by F. Oberwinkler in 1990, monotypic genus *Naohidea* Oberw. was established (Oberwinkler, 1990). It was named in honor of Prof. Dr. Naohide Hiratsuka (Oberwinkler, 1990). Since that, more nomenclature changes have been performed – *Naohideaceae* Denchev and *Naohideales* R. Bauer, Begerow, J.P. Samp., M. Weiss & Oberw. have been proposed (Bauer et al., 2006; Denchev, 2009).

*Naohidea sebacea* (Berk. & Broome) Oberw. is a highly specialized mycoparasite of species that belongs to *Botryosphaeriaceae* Theiss. & P. Syd. (Piątek, 2002; Sampaio et al., 2011; Schoch et al., 2006; Zhang et al., 2020). As hosts for *N. sebacea* were reported: *Botryosphaeria quercuum* (Schwein.) Sacc., *Botryosphaeria dothidea* (Moug. ex Fr.) Ces. & De Not., *Botryodiplodia* sp. and *Phialophorophoma*-like fungus (Piątek, 2002; Oberwinkler, 1990; GBIF occurrence 1099943825, 2021). Moreover, plenty of specimens of *N. sebacea* have no data about their hosts, especially CBS 8477, CBS 122592 and CJC 1083 (CBS, 2021; Sampaio, 1999; NCBI, 2021; GBIF, 2021). *N. sebacea* also appears to be a dimorphic fungus, but the mycelium stage can be observed only in nature (Sampaio et al., 2011).

Basionym of *N. sebacea* is *Dacrymyces sebaceus* Berk. & Broome, which type material was collected on twigs of *Fraxinus* sp. and *Acer* sp. in winter in England (Berkeley, 1871). Until now, species have been reported from England, France, Germany, Poland, Switzerland, the Netherlands, the USA, Canada and Taiwan (CBS, 2021; Sampaio et al., 2011; Piątek, 2002; Oberwinkler, 1990; GBIF, 2021). There is some information about the presence of *N. sebacea* in DNA probes from the marine benthic and pelagic environments from Australia and the soil in the USA and Australia (GBIF, 2021). We can suppose that yeast haploid form might be presented there. Basidiomata of this species are hard to see *in oculo nudo*, especially in dry conditions. *N. sebacea* possibly has broader geographic distribution, but is rarely identified because of inconspicuousness (Piątek, 2002).

Four specimens of *N. sebacea* (CWU (Myc) AB409, AB410, AB411, and AB412) were collected by O.Yu. Akulov on 30 October 2018 on the recently dead twigs of *Frangula alnus* Mill. after the rain, that made basidiocarps more visible. The presence of *N. sebacea* in one of mentioned above specimens was confirmed by molecular analysis (GenBank access number: OK039352). Moreover, its host fungus was recognized as *Dothiorella iberica* (Fr.) A.J.L. Phillips, Luque & Alves (= *Botryosphaeria iberica* A.J.L. Phillips, Luque & Alves) (Zhang, 2020; Phillips, 2005), which identification also was confirmed by molecular analysis (Khudych, 2021).

Our finds of rare fungicolous fungus *Naohidea sebacea* (Berk. & Broome) Oberw. from the territory of Natural Reserve «Roztochchia» are registered in Ukraine for the first time.

*The work was performed under the guidance of O.Yu. Akulov, Ph.D. and O.I. Zinenko, Ph.D. associated professors, Department of Mycology and Plant Resistance, V.N. Karazin Kharkiv National University.*