

## **IMMOTTHIA ATROGRANA (DACAMPIACEAE, ASCOMYCOTA), A NEW FOR UKRAINE FUNGICOLOUS FUNGUS FROM THE CARPATHIANS**

Akulov O.Yu., Hayova V.P. *Immotthia atrograna* (*Dacampiaceae, Ascomycota*), a new for Ukraine fungicolous fungus from the Carpathians. Ukr. Bot. J., 2016, 73(1): 84–89.

**Abstract.** The paper reports first records of new for Ukraine genus and species of fungicolous fungi, *Immotthia atrograna* (Cooke & Ellis) M.E. Barr. All collections were made in old-growth forests within protected areas in the Ukrainian Carpathians during recent mycological surveys. The fungus was found to be associated with two xylariaceous species, *Annulohypoxylon cohaerens* (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh and *A. multififorme* (Fr.) Y.M. Ju, J.D. Rogers et H.M. Hsieh. Diagnostic description, nomenclature data, geographical distribution and original illustrations for both sexual and asexual morphs of the reported species are provided. Morphologically similar fungicolous fungi are briefly reviewed and compared.

**Key words:** *Pleosporales, Immotthia, Hypoxylon, Coniothyrium parasitans*, mycoparasite, Ukrainian Carpathians

*Immotthia* M.E. Barr is a small genus currently classified in the family *Dacampiaceae* (*Pleosporales, Dothideomycetes, Ascomycota*). The *Dacampiaceae*, originally named as 'Dacampieae', at present comprises 20 genera. Of them, twelve are lichenicolous, seven contain saprobes growing on plant litter or non-specialized plant pathogens, and a single one, *Immotthia*, is exclusively fungicolous genus (Barr, 1987b; Dictionary of the Fungi, 2011; MycoBank, 2015). In 2002, M. Barr transferred the non-lichenicolous genera to the *Teichosporaceae* M.E. Barr; however, this familial placement has not been largely accepted.

Originally, M. Barr (1987a) established a new genus *Immotthia* to accommodate a single species, *Immotthia hypoxylon* (Ellis & Everh.) M.E. Barr (basionym *Amphisphaeria hypoxylon* Ellis et Everh.,  $\equiv$  *Otthia hypoxylon* (Ellis & Everh.) Ellis & Everh.). This monotypic genus was characterized by rather small globose to obpyriform ascocarps, usually gregarious on hypostroma, long-stalked bitunicate asci, and fusoid pigmented one-septate ascospores, uniseriately arranged in the asci. The genus name means «not at all *Otthia*» reflecting morphological distinctness from the genus *Otthia* Nitschke ex Fuckel, where the type species has been previously placed. The species epithet derives from association of the fungus with stromata of *Hypoxylon* spp. hosts.

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Later, after examination of the holotype specimen of *Sphaeria atrograna* Cooke & Ellis, M. Barr (1993) proposed a new combination in the genus *Immotthia*, *I. atrograna* (Cooke & Ellis) M.E. Barr. At the same time, she pointed out that the studied collection morphologically was not different from *Immotthia hypoxylon*, thus the species were considered as synonyms. The synonymy was confirmed in further studies of type material by W. Jaklitsch et al. (2002). Of the two basionyms, *Sphaeria atrograna* was described seven years earlier than *Amphisphaeria hypoxylon*, therefore the priority name of the fungus is *Immotthia atrograna*.

In 2002, M. Barr published a new combination, *Immotthia atroseptata* (Piroz.) M.E. Barr, based on *Didymosphaeria atroseptata* Piroz. parasitizing apothecia of *Pestalopezia rhododendri* Seaver on fallen leaves of *Rhododendron maximum* L. Described from USA, this fungus is known exclusively from the holotype specimen (Grand, 1973; Pirozynski, 1973; Barr, 2002).

One more morphologically similar yet undescribed species, repeatedly collected in several countries of Western Europe (Denmark, France, Luxembourg), is believed to belong to the genus *Immotthia*. This parasitic fungus was found in all localities on apothecia of another discomycete, *Velutaria rufo-olivacea* (Alb. & Schwein.) Korf (AscoFrance, 2015).

Thus, all known up to now species of the *Immotthia* genus are apparently obligate fungicolous fungi. The genus is not different in ecological preferences from other fungicolous genera, such as *Hypomyces* (Fr.) Tul. & C. Tul. or *Cosmospora* Rabenh., although is represented by much lower number of species.

In Ukraine, none of the *Immotthia* species has been registered so far. Several specimens recently collected by the authors, independently in different localities in the Ukrainian Carpathians, were subsequently identified as *Immotthia atrograna*. Since both genus and species are newly recorded in Ukraine, we provide below nomenclature data, diagnostic description, original illustrations, geographical distribution and other related information for the reported fungus. The specimens are deposited in Herbarium of the Department of Mycology and Immunology, V.N. Karazin National University of Kharkiv (CWU Myc) and in Mycological Herbarium of M.G. Kholodny Institute of Botany, National Academy of Sciences of Ukraine (KW).

***Immotthia atrograna* (Cooke & Ellis) M.E. Barr, Mycotaxon 46: 71, 1993 (Fig. 1–3)**

Syn.: *Sphaeria atrograna* Cooke & Ellis, Grevillea 8(45): 15, 1879;  $\equiv$  *Amphisphaeria atrograna* (Cooke & Ellis) Sacc., Syll. Fung. 1: 722, 1882;  $\equiv$  *Gibbera atrograna* Trans. Brit. Mycol. Soc. 65(3): 396, 1975;  $\equiv$  *Melamomma atrogranum* (Cooke & Ellis) Cooke, Grevillea, 16: 52, 1887;  $=$  *Amphisphaeria deformis* [*deformata*] Ellis & Langl., J. Mycol. 4(12): 123, 1888;  $=$  *Amphisphaeria pilosella* Ellis & Everh., Proc. Acad. nat. Sci. Philad. 47: 418, 1895;  $\equiv$  *Gibbera pilosella* (Ellis & Everh.) Sivan., Trans. Brit. Mycol. Soc. 65(3): 395, 1975;  $=$  *Amphisphaeria confertissima* Ellis & Everh., Proc. Acad. nat. Sci. Philad. 47: 418, 1895;  $\equiv$  *Gibbera confertissima* (Ellis & Everh.) Sivan., Trans. Brit. Mycol. Soc. 65(3): 395, 1975;  $=$  ***Immotthia hypoxylon* (Ellis & Everh.) M.E. Barr**, Mycotaxon 29: 504, 1987;  $\equiv$  *Amphisphaeria hypoxylon* Ellis & Everh., J. Mycol. 2(4): 41, 1886;  $\equiv$  *Otthia hypoxylon* (Ellis & Everh.) Ellis et Everh., 1892;  $\equiv$  *Dimerium hypoxylon* (Ellis & Everh.) Petr., Sydowia 11: 338, 1958;  $\equiv$  *Melamomma hypoxylon* (Cooke & Ellis) Cooke, Grevillea, 16: 53, 1887;  $?=$  *Neopeckia episphaeria* Höhn., Ann. Mycol. 17(2–6): 120, 1920;  $?=$  *Sphaeria insidens* Schwein., Schr. naturf. Ges. Leipzig 1: 39, 1822;  $\equiv$  *Myrmecium insidens* (Schwein.) Sacc., Syll. Fung. 1: 601, 1882;  $\equiv$  *Anthostoma insidens* (Schwein.) Berl. & Voglino, Syll. Fung. Add. Vol. I–IV: 47, 1886;  $\equiv$  *Hypoxyton insidens* (Schwein.) Ellis & Everh., N. Amer. Pyren. (Newfield):

653, 1892;  $?=$  *Jahnula parasitica* Kirschst. ined. Petrik, 1958.

Anamorph: ***Coniothyrium parasitans* (Berk. & Ravenel) Tassi**, Bulletin Labor. Orto Bot. de R. Univ. Siena 5: 25, 1902;  $\equiv$  *Sphaeropsis parasitans* Berk. & Ravenel, Grevillea 2(24): 180, 1859;  $\equiv$  *Macroplodia parasitans* (Berk. & Ravenel) Kuntze, Revis. gen. pl. (Leipzig) 3: 492, 1898;  $\equiv$  *Cicinnobella parasitans* (Berk. & Ravenel) Petr., Sydowia 11: 338, 1958.

Icon.: Chlebicki, Acta Mycologica, 2005, 40(1): 76, fig. 1D (as *Immotthia hypoxylon*); Jaklitsch et al., Österreichische Zeitschrift für Pilzkunde, 2002, 11(14): 103, figs. 9–12; Barr, Prodromus..., 1987, p. 101, Pl. 23 Q; Barr, Mycotaxon, 2002, 82(3): 379: figs. q-s; Barr, Mycotaxon, 1993, 46(1): 69, figs. p-r; Sivaneshan, Trans. Brit. Mycol. Soc., 1975, 65(3): 396, fig. 1A, Pl. 50(8).

**Hypostroma** appearing as a dark brown to black crust under pseudothecia on the surface of host stromata, 50–300  $\mu\text{m}$  wide, in section composed of dark brown *textura angularis* made up of thick-walled (0.5–1.5  $\mu\text{m}$ ) cells, 6–11  $\mu\text{m}$  in diameter, similar to cells of ascocatal wall in surface view. **Ascomata** (pseudothecia) superficial on hypostroma, numerous, usually gregarious to densely aggregated, globose, obpyriform, often becoming laterally compressed by mutual pressure, 120–270 (up to 385)  $\mu\text{m}$  in diameter, black, carbonaceous, surface glabrous to roughened by protruding cells. **Ostioles** pallid to reddish-brown, inconspicuous, 30–50  $\mu\text{m}$  in diameter, appearing as a circular pore in apical part of ascocata, occasionally slightly papillate. Interior of the ostiolar canal is lined with short hyaline to pale brown periphyses, broadly rounded at the apex, 8–18  $\times$  2–3  $\mu\text{m}$ . **Peridium** three-layered, 30–50  $\mu\text{m}$  wide, equally thick or slightly thicker toward the ascocatal apex. External layer 10–15  $\mu\text{m}$  wide, composed of dark angular cells resembling those of hypostroma. Middle layer 6–15  $\mu\text{m}$  thick, consists of 2–4 layers of more loosely arranged and lighter coloured cells. Internal layer 10–20  $\mu\text{m}$  in width, of pale to subhyaline cells 3–8  $\mu\text{m}$  in diameter. In addition, at the base of ascocata, between the internal layer and hymenium, a sterile tissue up to 80  $\mu\text{m}$  high is frequently formed. The outer surface of peridium smooth to verruculose, covered by protruding cells of the external layer of pseudothecia. **Hamathecium** composed of numerous pseudoparaphyses, hyaline, filiform, cellular, branching, easily detached from peridium, exceeding ascii in length, 1.5–3.0  $\mu\text{m}$  wide. **Asci** bitunicate, oblong cylindrical, thick-walled (up to 3  $\mu\text{m}$  thick at the apex), formed in a broad basal fascicle, (4–6–)8-spored, (50–)60–90  $\times$  (5–)6–10

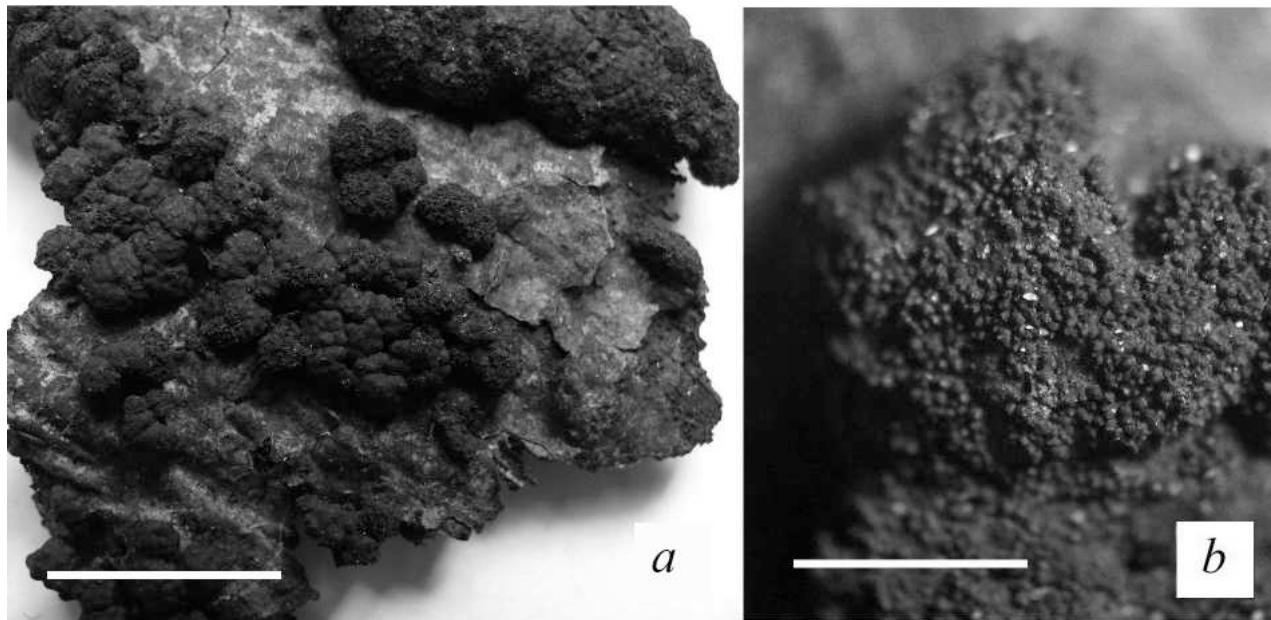


Fig. 1. *Immotthia atrograna* [CWU Myc AS 4704]: *a* — habit on stromata of *Annulohypoxylon cohaerens*, bar: 2 cm; *b* — general view of ascomata and conidiomata, bar: 500 µm

µm; ascospores arranged within the asci in obliquely uniseriate manner. **Ascospores** yellow-brown to reddish-brown, ellipsoid, obovoid to biconical, slightly asymmetric, inaequilateral, one-septate, constricted at septum, (8—)9—14(—18) × (4.5—)5—6(—7) µm; septum central to eccentric, about 1 µm in width, slightly darker than spore walls; upper cell longer and wider than lower one, ends subacutely rounded, 1—3 guttules per cell; walls smooth to verruculose, surrounded by a hyaline perispore, non-dehiscent in KOH.

**Anamorph** pycnidial; in external appearance and general shape conidiomata remarkably similar to ascomata, sometimes differ in slightly smaller size. Conidiophores absent. Conidiogenous cells enteroblastic, hyaline, smooth, discrete, determinate, irregularly ampulliform or doliiform, (8—)10(—14) × 5(—7) µm, proliferating as typical phialides, with minute colarette and conspicuous pericinal thickening. Conidia ellipsoid, rounded at both ends or slightly tapering toward one end, one-celled, at first hyaline, later light- to medium-brown, 6—8(—9) × 3—5 µm, smooth or finely verruculous, usually bi-guttulate\*.

\* A few collections from USA, quite closely resembling *Immotthia atrograna*, differ in having smaller ascospores and conidia. For example, a specimen from North Carolina at BPI with ascospores 6—8(—9) × 2—3 µm and conidia 4—5 × 1 µm has unclear taxonomic position (Barr, 1993).

**Specimens examined.** On stromata of *Annulohypoxylon cohaerens* (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh on wood of *Fagus sylvatica* L. — Chernivtsi Region, Vyzhnytsia District, Vyzhnytsia National Nature Park, fir-beech forest, 48° 12' N 25° 12' E, 22.08.2015, V.P. Hayova [KW 60674]. — Ivano-Frankivsk Region, Nadvirna District, Gorgany Nature Reserve, Gorgany forestry, spruce-beech forest, quarter 14, 48° 29' N 24° 17' E, 29.08.2010, V.P. Hayova [CWU (Myc) AS 5803, = KW 60665]. — Lviv Region, Skole District, Skolivs'ki Beskydy National Nature Park, old-growth beech forest on the slope of Mount Parashka (protected area), 49° 04' 04'' N 23° 25' 32'' E, 22.09.2011, O.Yu. Akulov [CWU (Myc) AS 4704].

On stromata of *Annulohypoxylon multiforme* (Fr.) Y.M. Ju, J.D. Rogers & H.M. Hsieh on bark of *Alnus incana* (L.) Moench. — Ivano-Frankivsk Region, Nadvirna District, Gorgany Nature Reserve, Gorgany forestry, along Dzhurdzhynets stream, 48° 28' N 24° 17' E, 28.08.2010, V.P. Hayova [KW 60669].

On stromata of *A. multiforme* on bark of *Betula pendula* Roth. — Ivano-Frankivsk Region, Nadvirna District, Gorgany Nature Reserve, beech-spruce forest with admixture of birch, quarter 14, 48° 29' N 24° 17' E, 30.08.2010, V.P. Hayova [KW 60671].

**General distribution.** Europe: Austria, Belgium, France, Lithuania, Norway, Poland, Russia (European part), Sweden, Switzerland, Ukraine. Asia: China.

Fig. 2. *Immotthia atrograna* [CWU Myc AS 4704]: *a* — vertical section through ascomata, bar: 250  $\mu\text{m}$ ; *b* — surface view of ascoma, bar: 250  $\mu\text{m}$ ; *c* — ascromatal peridium; *d* — ascospores, bar: 13  $\mu\text{m}$ , *e* — ascus and part of hamathecium, bar: 40  $\mu\text{m}$

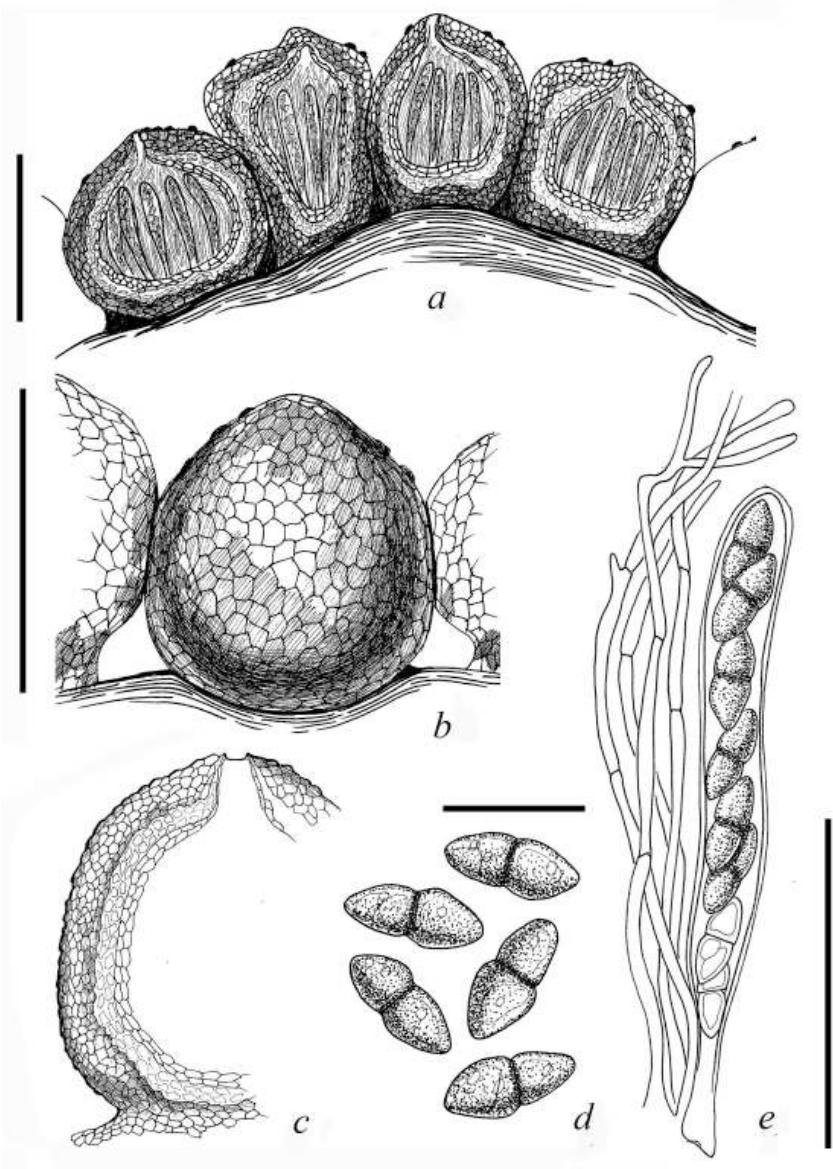
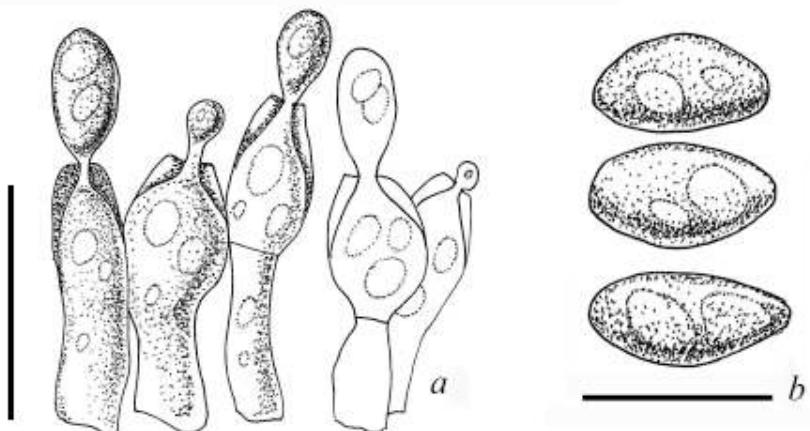


Fig. 3. Anamorph of *Immotthia atrograna*, *Coniothyrium parasitans* [KW 60665]: *a* — conidiogenous cells, bar: 10  $\mu\text{m}$ ; *b* — conidia, bar: 8  $\mu\text{m}$



North America: USA. South America: Venezuela, Puerto-Rico.

**Host specialization.** Stromata of *Annulohypoxylon cohaerens* \*\*, *A. multiforme*, *Hypoxylon rubiginosum* (Pers.) Fr., and *H. perforatum* (Schwein.) Fr., occasionally also a decayed wood of various hardwoods, particularly in humid forest habitats.

Polish mycologists A. Chlebicki and A. Skirgiel&lsquo;o (1995) consider *Immotthia atrograna* «an obligatory fungicolous saprophyte». On the contrary, W. Jaklitsch et al. (2002) are inclined to regard *I. atrograna* as an obligate parasite attacking host stromata in all stages of their development. In the latter case, parasitic nature of the fungus is supported by inability of ascospores to germinate on artificial media.

The anamorph of this fungus indicated here as *Coniothyrium parasitans* belongs to morphologically extremely variable group of coelomycetous fungi. Recent studies of cultural characteristics and DNA sequence data of the *Coniothyrium*-like fungi have demonstrated that their morphological features are often not suitable to delimit formerly recognisable species and genera. Based on multi-locus DNA phylogeny combined with detailed morphological analyses, several new genera were proposed; moreover, some families within the *Pleosporales* were redefined (Verkeley et al., 2004, 2014). In the present study, we did not observe annellidic conidiogenous cells, the most distinctive *Coniothyrium* character. Thus asexual morph of the reported species, due to phialidic conidiogenesis and described above conidiomatal and conidial characters, may be transferred to one of the novel genera; however, molecular phylogenetic evidence for the redisposal is required.

Morphologically very close to *Immotthia atrograna* is a non-fungicolous species, *Coleroa pusiola* (P. Karst.) Sivan., described from wood of *Salix myrsinifolia* Salisb. (as *S. nigricans* Smith) from Finland. This fungus was previously known as *Amphisphaeria pusiola* P. Karst., or *Didymosphaeria pusiola* (P. Karst.) Rehm. Description and illustrations of the holotype specimen of *Coleroa pusiola* provided by A. Sivaneshan (1975) show ascospore size  $9–12 \times 3.5–4.5 \mu\text{m}$ , while the holotype collection of *Immotthia atrograna* features slightly longer and wider ascospores ( $13–15 \times 5–7 \mu\text{m}$ ). M. Barr (1993) who examined numerous specimens of *Immotthia atrograna*, observed very wide ascospore size range in this species. She suggested that *Coleroa pusiola* might be another

species of *Immotthia*, with a thinner peridium, up to  $25 \mu\text{m}$  wide, and slightly smaller ascospores.

Quite resembling *Immotthia atrograna* in general appearance and micromorphological features are species of another genus, *Didymosphaeria* Fuckel. They also have one-septate brown ascospores; moreover, some species are characterized by fungicolous habit, for example, *Didymosphaeria eutypae* Sureya, *D. cocconiae* Arx (= *Didymosphaeria cocconiae* var. *major* Bat. & Peres), and *D. conoidea* Niessl. *D. eutypae*, a parasite of stromatic pyrenomycete *Eutypa* spp. described from France, differs in having wider ascospores ( $8 \times 7.5–8 \mu\text{m}$ ). *D. cocconiae* has significantly larger ascospores ( $18–24 \times 7–8.5 \mu\text{m}$ ). This species described as a parasite of *Hysterostomella spurcaria* (Berk. & Broome) Höhn. (as *Cocconia spurcaria* (Berk. & Broome) Arx) is known from the Philippines islands and Brazilia (Pirozynski, 1973). *D. conoidea* has almost identical in size ascospores ( $9–10–12(–14) \times 4–5(–6) \mu\text{m}$ ; however, it occurs mostly on members of the *Leptosphaeriaceae* M.E. Barr on plant litter (Shoemaker, Babcock, 1990).

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\*\* On stromata of *Annulohypoxylon cohaerens* this fungus is first reported here.

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Акулов О.Ю.<sup>1</sup>, Гайова В.П.<sup>2</sup> *Immotthia atrograna* — новий для території України вид мікофільних грибів із Карпат. — Укр. ботан. журн. — 2016. — **73**(1): 84–89.

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Повідомляється про перші знахідки в Україні мікофільного гриба *Immotthia atrograna* (Cooke & Ellis) M.E. Barr. Усі зразки зібрані в старовікових лісах під час мікологічних обстежень на природоохоронних територіях Українських Карпат. Гриб знайдений на двох видах грибів — *Annulohypoxylon cohaerens* (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh i *A. multififorme* (Fr.) Y.M. Ju, J.D. Rogers & H.M. Hsieh. Наведено діагностичний опис, номенклатурні дані, географічне поширення та оригінальні ілюстрації, а також вміщено стислі відомості для порівняння з морфологічно подібними мікофільними грибами.

**Ключові слова:** *Pleosporales*, *Immotthia*, *Hypoxyylon*, *Coniothyrium parasitans*, мікопаразити, Українські Карпати.

Акулов А.Ю.<sup>1</sup>, Гаевая В.П.<sup>2</sup> *Immotthia atrograna* — новый для территории Украины вид микофильных грибов из Карпат. — Укр. ботан. журн. — 2016. — **73**(1): 84–89.

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Сообщается о первых находках в Украине мікофильного гриба *Immotthia atrograna* (Cooke & Ellis) M.E. Barr. Все образцы собраны в старовозрастных лесах во время мікологических обследований на природоохранных территориях Украинских Карпат. Гриб обнаружен на двух видах грибов — *Annulohypoxylon cohaerens* (Pers.) Y.M. Ju, J.D. Rogers & H.M. Hsieh и *A. multififorme* (Fr.) Y.M. Ju, J.D. Rogers & H.M. Hsieh. Приведены диагностическое описание, номенклатурные данные, географическое распространение и оригинальные иллюстрации, краткие сведения для сравнения с морфологически сходными мікофильными грибами.

**Ключевые слова:** *Pleosporales*, *Immotthia*, *Hypoxyylon*, *Coniothyrium parasitans*, микопаразиты, Украинские Карпаты.