

## **Immersaria**

After Hertel & Rambold, 1985, Rambold, 1989,  
Galloway & Coppins, 1992, Thomson, 1979, and others

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Apothecia immersed, black to gray, more or less marginate, non-umbonate; hypothecium hyaline to brown; hymenium orange-red in Lugol's solution; paraphyses under 2  $\mu$ m thick. Thallus crustose, brown, covered by epinecral layer; containing depsides or depsidones; hypothallus present. On siliceous or calcareous rocks.

A segregate from Lecidea.

**1. Spores (12-)15-24(-26) x (6-)8-12(-14)  $\mu$ m. Apothecia immersed then flat, often aspicilioid, between areoles.** Thallus crustose, small to very large, irregularly spreading, distinctly cracked-areolate, yellowish brown, dark brown, gray, olive brownish to  $\pm$  blackened,  $\pm$  glossy, covered by epinecral layer; areoles angular, subconcave, flat or subconvex, separated by deep cracks; hypothallus black, occasionally visible at margins. Medulla I+ violet, P-, K-, KC-, C-, containing confluent and 2'-O-methylperlatolic acids. Apothecia (0.2-)0.5-1.2(-1.8) mm diam., rounded or deformed through mutual pressure, flat to subconvex at maturity, numerous, scattered or crowded in groups, ; disc black (to gray), non-umbonate, roughened, not pruinose,  $\pm$  marginate; margins thin, raised, persistent, black. Hypothecium hyaline to brown; hymenium 70-110(-120)  $\mu$ m tall, orange-red in Lugol's solution; paraphyses under 2  $\mu$ m thick. Conidia 5-12(-14) x 1-1.5(-2)  $\mu$ m. On somewhat metal-rich or basaltic rocks and on schists, often on other lichens (Aspicilia). ..... I. athroocarpa (Ach.) Rambold & Pietschm.

**1. Spores 12-12.5 x 6.5-7.5  $\mu$ m. Apothecia  $\pm$  sessile.** Areoles flat, to 1 mm across, very angular, very dark sooty brown, bordered by a black hypothallus and pale gray margin about 3 areoles wide. Apothecia to 1(-1.5) mm diam.; disc  $\pm$  flat or convex, matt, epruinose; margin thin or indistinct. Exciple dark. Hymenium 65-75  $\mu$ m; epihymenium brown; paraphyses coherent; spores uniseriate, frequently with gelatinous halo. Cortex K- (or K+ yellow?). On sandstone. Arctic. .... I. carbonoida (syn.: Lecidea carbonoida)

## **Literature**

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