

*Short Report*

**NEW RECORD OF THE GENUS *Melampsora* ON *Populus x euramericana* FROM IRAN \***

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**Abstract**

The study on recently collected specimens of *Populus x euramericana* infected by a *Melampsora* species revealed that the specimens are different from other *Melampsora* species recorded on *Populus* in Iran. Uredinia and telia were found on the infected plant. Uredinia hypophyllous, scattered, pulverulent, and round often covered the whole leaf surface; urediniospores were mostly obovoid, 31-43 x 15-20  $\mu\text{m}$ , their wall echinulate, smooth at apex, 1.5-2  $\mu\text{m}$  thick at apex, up to 6  $\mu\text{m}$  thick at sides; and paraphyses were clavate, their wall up to 13  $\mu\text{m}$  thick at the apex. Telia was black, amphigenous but mostly epiphyllous, sub epidermal; teliospores adhered laterally, 40-64 x 8-12  $\mu\text{m}$ , wall 1  $\mu\text{m}$  thick, apically thickened up to 2.5  $\mu\text{m}$ . Fungal morphological features matched features characteristic of *Melampsora larici-populina* Kleb. This is the first report of a rust disease attacking leaves of *Populus x euramericana* in Iran. *Melampsora larici-populina* is also newly reported for the Iranian Rust mycobiota.