

## *Short Report*

### REPORTING A NEW SPECIES OF CAREX RUST IN IRAN

F. ALIABADI<sup>1</sup>, M. ABBASI<sup>2</sup> and S. REZAEI<sup>1</sup>

1. Department of Plant Pathology, College of Agriculture and Natural Resources, Islamic Azad University, Branch of Science and Research, Tehran

2. Department of Botany, Iranian Research Institute of Plant Protection, Tehran

#### **Abstract**

Members of Cyperaceae family are among the common host species of rust fungi. To our knowledge, till now seven *Puccinia* species have been recorded on cyperaceous plants in Iran. Of these, four species were known on *Carex*. In present report, other rust species are reported on *Carex orbicularis* subsp. *kotschyana* (Boiss. & Hohenacker) Kukkonen. This report is based on infected specimen collected from Central Alborz. The studied specimen had the following features: Uredinia hypophyllous, arranged in row, minute, ellipsoid or oblong, light brown, on chlorotic stripes; urediniospores subglobose, ellipsoid or obovoid, 22.5-30(-32.5) x 20-27.5 µm, walls yellowish brown, echinulate, 1.5-2.5 µm thick, germ pores 3-4 equatorial. Telia hypophyllous, oblong, on short chlorotic stripes, semi-compact blackish brown; teliospores mostly clavate rounded or truncate at apex, rarely acuminate, constricted at septum, narrow at the base, 37.5-60 x 15-22.5 µm, walls light chestnut brown, 1.5-2.5 µm thick at sides, 6-12.5 µm at the apex; pedicels persistent, about the same length as spores (Fig 1). These features were not compatible with previously reported rust species on *Carex* spp., from Iran (ABBASI, M. et al. 2000. Rostaniha 1: 23-41). However, the characteristics were well fitted with description of *Puccinia urticata* F. Kern, written by Zwetko (ZWETKO, P. 1993. Bibliotheca Mycologica 153, 222 p). This is the first report of *P. urticata* from Iran. Moreover, *C. orbicularis* subsp. *kotschyana* is a new host for this fungus.

Material examined On *Carex orbicularis* subsp. *kotschyana*, Central Alborz, Karaj-Chalus road, 1 km N of Kandeivan pass, 2380 m, 17.Aug.1993, M. Abbasi, J. Fatehi and O. Foitzik (IRAN 15212 F), II+III.