



## Article

Five new names in the genus *Cyperus* L. (Cyperaceae)Vadhyaruparambil P. Prasad<sup>1,\*</sup> and Rafaël Govaerts<sup>2</sup><sup>1</sup>Central National Herbarium, Botanical Survey of India, P.O. Botanic Garden, Howrah – 711103, India<sup>2</sup>Royal Botanic Gardens, Kew, Richmond, Surrey, TW9 3AE, UK\*Corresponding author. Email: [prasad\\_parur@yahoo.com](mailto:prasad_parur@yahoo.com)

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**Abstract**

Four new combinations and one replacement name in *Cyperus* are proposed for four names of *Pycreus* and one *Kyllinga* under the family Cyperaceae in India.

**Keywords:** *Cyperus*, India, new combinations, replacement name

**Introduction**

The sedge genera in India sharing many characters of *Cyperus* L. are *Anosporum* Nees, *Ascolepis* Nees, *Kyllinga* Rottb., *Mariscus* M.Vahl, *Pycreus* P.Beauv., *Queenslandiella* Domin and *Remirea* Aubl. However, among these *Kyllinga*, *Pycreus*, *Queenslandiella* and *Remirea* can be treated separately based on their distinct morphological characters. The nature of the inflorescence and the arrangement of the achenes on the rachilla are good characters to treat these genera separately but, because of the similarity in certain vegetative and floral characters or the overlapping characters of the allied genera, the genus *Cyperus* is often treated *sensu lato* to accommodate all of them.

Recently, Larridon *et al.* (2013; 2014) proposed a broad circumscription for the genus *Cyperus* and found nested in it almost all the above genera based on molecular phylogenetic analysis. Most species of these genera already have names in the genus *Cyperus*, as Kükenthal (1935–1936) in his global revision of the genus also took a broad view. Therefore, there was no need for a large number of new combinations in the genus *Cyperus*. However, there are a few taxa, described more recently under the genera *Kyllinga* and *Pycreus*, which have no names in *Cyperus*. We propose here four new combinations and a replacement name for species of *Kyllinga* and *Pycreus* distributed in India. Identifiers are cited for all nomenclatural novelties as provided by the IPNI registration repository (IPNI, 2016). They are listed in brackets after the new names.

## Taxonomy and Nomenclature

*Cyperus eglandulosus* (Govind. & Ramani) V.P.Prasad & Govaerts, **comb. nov.**

(urn:lsid:ipni.org:names: 77155604-1).

Basionym: *Kyllinga eglandulosa* Govind. & Ramani in J. Econ. Taxon. Bot. 18: 335. 1994.

*Cyperus kanarensis* (V.P.Prasad & N.P.Singh) V.P.Prasad & Govaerts, **comb. nov.**

(urn:lsid:ipni.org:names: 77155605-1).

Basionym: *Pycrus kanarensis* V.P.Prasad & N.P.Singh in J. Econ. Taxon. Bot. 21: 667. 1997.

*Cyperus mahadevanii* (Govind.) V.P.Prasad & Govaerts, **comb. nov.**

(urn:lsid:ipni.org:names: 77155606-1).

Basionym: *Pycrus mahadevanii* Govind. in J. Econ. Taxon. Bot. 20: 299. 1996.

*Cyperus pyramidalis* (Govind.) V.P.Prasad & Govaerts, **comb. nov.**

(urn:lsid:ipni.org:names: 77155607-1).

Basionym: *Pycrus pyramidalis* Govind. in J. Econ. Taxon. Bot. 20: 301. 1996.

*Cyperus munnarensis* V.P.Prasad & Govaerts, **nom. nov.**

(urn:lsid:ipni.org:names: 77155617-1).

Replaced synonym: *Pycrus fasciculatus* Govind. in J. Econ. Taxon. Bot. 20: 301. 1996.

**Etymology:** the new name is derived from Munnar, the locality where the type specimen was collected.

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## References

**IPNI.** 2016. The International Plant Names Index. Published on the Internet <http://registration.ipni.org/registration/> [accessed June, 2016].

**Kükenthal, G.** 1935–1936. Das Pflanzenreich. Cyperaceae-Scirpoideae-Cypereae, IV, 20: 1–671. Leipzig.

**Larridon, I., Bauters, K., Reynders, M., Huygh, W., Muasya, A.M., Simpson, D.A. and Goetghebeur, P.** 2013. Towards a new classification of the giant paraphyletic genus *Cyperus*

(Cyperaceae): phylogenetic relationships and generic delimitation in C4 *Cyperus*. Bot. J. Linn. Soc. 172(1): 106–126.

**Larridon, I., Bauters, K., Reynders, M., Huygh, W., and Goetghebeur, P.** 2014. Taxonomic changes in C4 *Cyperus* (Cypereae, Cyperoideae, Cyperaceae): combining the sedge genera *Ascolepis*, *Kyllinga* and *Pycneus* into *Cyperus* s.l. Phytotaxa 166(1): 33–48.