



## ×*Ellipisorus* *nom. nov.* for ×*Lepinema* (Polypodiaceae) and ×*Ellipisorus inaequibasis* *com. nov.* from China

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### Abstract

A new generic name, ×*Ellipisorus*, is proposed to replace ×*Lepinema*, a hybrid fern genus between *Ellipinema* and *Lepisorus* (Polypodiaceae).

**Keywords:** Lepisoreae, *Lepisorus waltonii*, *Platygyria*

### Introduction

Recently, ×*Lepinema* Li Bing Zhang & Liang Zhang (2020: 264), a hybrid genus of the ferns between *Ellipinema* Li Bing Zhang & Liang Zhang in Zhang *et al.* (2020: 6) and *Lepisorus* (J. Smith 1846: 13) Ching (1933: 47; Polypodiaceae) has been published. Unfortunately, there exists an earlier non-hybrid genus of flowering plants with the same spelling, *Lepinema* Rafinesque (1837: 26; Gentianaceae). Following Shenzhen Code Art. H.3.3. (Turland *et al.* 2018), for purposes of homonymy and synonymy the multiplication sign × and the prefix “notho-” are disregarded. Therefore, ×*Lepinema* Li Bing Zhang & Liang Zhang (Polypodiaceae) is a later homonym of *Lepinema* Raf. (Gentianaceae). A new name is needed to replace ×*Lepinema* Li Bing Zhang & Liang Zhang.

### Taxonomic treatment

×*Ellipisorus* Li Bing Zhang & Liang Zhang, *nom. nov.*, replaced synonym: ×*Lepinema* Li Bing Zhang & Liang Zhang (2020: 264).

A hybrid genus between *Lepisorus* and *Ellipinema*.

**Etymology:**—A combination of the two parent genera *Lepisorus* and *Ellipinema*.

This nothogenus contains one nothospecies.

×*Ellipisorus inaequibasis* (Ching & S.K. Wu) Li Bing Zhang & Liang Zhang, *comb. nov.* Basionym: *Platygyria* ×*inaequibasis* Ching & S.K. Wu (1980: 72). Type:—CHINA. Yunnan: Deqin, *C.W. Wang 69900* (PE).

Homotypic synonym:—×*Lepinema inaequibasis* (Ching & S.K. Wu) Li Bing Zhang & Liang Zhang (2020: 264).

This nothospecies is a hybrid between *Lepisorus waltonii* (Ching in Hill 1933: pl. 3158) S.L. Yu in Yu & Lin (1997: 343) and *Ellipinema jakonense* (Blanford 1885: 14) Li Bing Zhang & Liang Zhang in Zhang *et al.* (2020: 6).

It occurs in areas of high elevations in western China (Sichuan, Tibet, Yunnan) (Ching & Wu 1980, Zhang & Zhang, 2020).

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## References

- Blanford, H.F. (1885) *An Annotated List of the Ferns of Simla Between the Elevations of 4,500 and 10,500 Feet*. Calcutta Central Press, Calcutta, 18 pp.
- Ching, R.-C. (1933) The studies of Chinese ferns IX. *Bulletin of the Fan Memorial Institute of Biology* 4 (3): 47–110.
- Ching, R.-C. & Wu, S.-K. (1980) *Platygyria* Ching et S.K. Wu, a unique new genus of the Polypodiaceae from China. *Acta Botanica Yunnanica* 2: 67–74.
- Hill, A.W. (1933) *Hooker's Icones Plantarum*. vol. 32. Dulau & Co., London, 3200 pp.
- Rafinesque, C.S. (1836) [1837] *Flora Telluriana*, part 3. H. Probasco, Philadelphia, 100 pp.
- Smith, J. (1846) Additions to the "Hortus Kewensis". *Botanical Magazine* 72 (Comp.): 1–42.
- Turland, N.J., Wiersema, J.H., Barrie, F.R., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Kusber, W.H., Li, D.-Z., Marhold, K., May, T.W., McNeill, J., Monro, A.M., Prado, J., Price, M.J. & Smith, G.F. (Eds.) (2018) *International Code of Nomenclature for Algae, Fungi, and Plants (Shenzhen Code) Adopted by the Nineteenth International Botanical Congress Shenzhen, China, July 2017*. Regnum Vegetabile 159. Koeltz Botanical Books, Glashütten.  
<https://doi.org/10.12705/Code.2018>
- Yu, S.-L. & Lin, Y.-X. (1997) A study on systematics of the genus *Lepisorus* (Polypodiaceae). *Acta Phytotaxonomica Sinica* 35: 341–347.
- Zhang, L., Zhou, X.-M., Liang, Z.-L., Fan, X.-P., Lu, N.T., Song, M.-S., Knapp, R., Gao, X.-F., Sun, H. & Zhang, L.-B. (2020) Phylogeny and classification of the tribe Lepisoreae (Polypodiaceae; pteridophyta) with the description of a new genus, *Ellipinema* gen. nov., segregated from *Lepisorus*. *Molecular Phylogenetics and Evolution* 148.  
<https://doi.org/10.1016/j.ympev.2020.106803>
- Zhang, L. & Zhang, L.-B. (2020) Fern nothogenera and  $\times$ *Lepinema*, a new hybrid genus between *Ellipinema* and *Lepisorus* (Polypodiaceae). *Phytotaxa* 455: 262–266.  
<https://doi.org/10.11646/phytotaxa.455.4.3>