

Alexander B. DOWELD: *Pterocarya rhoifolioides*, a New Name for the Fossil *Pterocarya japonica* (Juglandaceae)

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Summary: A junior homonym of an extant species, the fossil *Pterocarya japonica* Uemura 1988 (non Dippel 1891), which was previously proposed for the illegitimate homonym *Juglans japonica* Tanai 1961 (non Miquel 1867), is replaced with a new name, *P. rhoifolioides* Doweld.

When originally established, the fossil species based on Miocene leaves from Hokkaido (Japan), *Juglans japonica* Tanai (Tanai 1961: 275), was an illegitimate junior homonym of the extant species *Juglans japonica* Siebold ex Miq. (Miquel 1867: 103), and hence its name should be changed. Uemura (1988: 132) re-studied Tanai's materials and transferred the species into the genus *Pterocarya* with a new combination, *Pterocarya japonica* Uemura. This should be correctly treated as a new name, but not a combination since the basionym was an illegitimate homonym. Nevertheless, Uemura (1988) overlooked that his fossil *Pterocarya japonica* Uemura is preoccupied by the name of an extant species, *Pterocarya japonica* Hort. ex Dippel (1891: 329), and therefore, the fossil species name is again an illegitimate junior homonym. The homonymy of the fossil species emerged during the creation of the *International Fossil Plant Names Index*, which plans to list all fossil plant species (IFPNI 2014–). Since the fossil species is in current use and has no synonyms (Iljinskaja 1994), in accordance with the International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) a new replacement name, *P. rhoifolioides* Doweld has

been proposed. The specific epithet emphasizes the similarity between the fossil species and the extant species, *P. rhoifolia* Siebold & Zucc.

New nomenclatural act (*nomen novum*) was registered through a pilot registration version in the International Fossil Plant Names Index (IFPNI, 2014–onwards; <http://fossilplants.info/about>), with unique persistent registration bar code (LSIDs) listed under each newly proposed fossil plant taxon.

Systematics

Family *Juglandaceae* Perleb (1818).

Genus *Pterocarya* Kunth (1824).

***Pterocarya rhoifolioides* Doweld, nom. nov.**

≡ *Juglans japonica* Tanai in J. Fac. Sci. Hokkaido Univ., ser. 4, Geol. Miner. **11**: 275 (1961), pl. 6, fig. 10, nom. illeg. non *J. japonica* Siebold ex Miq., Ann. Mus. Bot. Lugd.-Bat. **3**: 103 (1867).

≡ *Pterocarya japonica* Uemura, Late Mioc. Fl. Honshu: 132 (1988), nom. illeg. non *P. japonica* Hort. ex Dippel, Handb. Laubholzk. **2**: 329 (1891) [“1892”].

IFPNI registration record: D49FF691-AF23-458B-A67E-F44A56F0189E.

Holotype: JAPAN. Hokkaido. Monbetsu-gun, Engaru-cho, Kami-Shanabuchi (UHR-15127, National Museum of Nature and Science, Palaeobotany Collection. Tokyo, Japan).

Stratigraphic distribution: Miocene.

Palaeogeographic distribution: Japanese archipelago, Far East of Russian Federation (Primorye territory and Sakhalin Island).

References

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A. B. Doweld: 化石植物 *Pterocarya japonica* (クルミ科)
の新名 *Pterocarya rhoifolioides*

北海道紋別郡遠軽町の中新世から *Juglans japonica* Tanai (1961) が記載されたが、これは *Juglans japonica* Siebold ex Miq. (1867) の先行名があるため、不適法であった。そこで植村は *Pterocarya japonica* Uemura (1988) を発表した。しかしながら、この学名も *Pterocarya japonica* Hort. ex Dippel (1891) があるため、適法ではな

かった。そこで、新しい置換名 *Pterocarya rhoifolioides* Doweld をここに提唱した。この学名は問題の植物が現世の *P. rhoifolia* Siebold & Zucc. に近似していることを強調するために命名したものである。

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