



<http://dx.doi.org/10.11646/phytotaxa.170.1.9>

Typification of five names listed by Roberto de Visiani in *Plantarum Serbicarum Pemptas*

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Roberto de Visiani (1800–1878) was a Dalmatian botanist of Italian ancestry. During the 1850s he started a long lasting collaboration with a Serbian professor - botanist Josif Pančić (1814–1888), who worked in Belgrade. During this period, from 1858 to 1871, they described thirty-five new species and one new variety, in four articles (Visiani 1860, Visiani & Pančić 1862, Visiani & Pančić 1865, Visiani & Pančić 1870). Many of their names are still in general use or are basionyms of the names in use (Euro+Med 2014), but, with few exceptions, they have not yet been typified.

In 1856, Pančić went to Vienna as a representative of the Serbian Medical Corps on the 32nd meeting of the German natural scientists and doctors where he met Visiani for the first time. Their long-lasting collaboration started on that occasion, when Pančić gave to Visiani the Serbian plants that he considered new to science, to be examined (Mitranović 1964). The first work stemming from their exchanges (Visiani 1860) was written by Visiani in Italian, but the new species were described on the basis of Pančić's material from Serbia that he had received in Vienna, while all later works were jointly prepared by the two scientists and written in Latin (Visiani & Pančić 1862, 1865, 1870).

Visiani (1860) contains the protogues of four new species names and information on another species that was previously validly published in Visiani 1858, along with the new genus to which it belongs. The aim of this paper is to provide typification of all five names that were either firstly proposed or made available to a more general public in Visiani (1860), in order to insure the *correct application* of the names.

Materials and methods

Most of the plants collected by Pančić that were described by Visiani or jointly with Visiani are held in the herbarium of Padova (PAD), mainly in the special collection *Herbarium Dalmaticum*, and in the herbarium of the University of Belgrade (BEOU) in the special collection *Herbarium Pancicianum* (Vukojičić *et al.* 2011). The following herbaria were also consulted: BASSA, BOLO, G, HAL, PRC and W (abbreviations follow Thiers 2014).

Typification of the names

Pancicia serbica Visiani (1858: 9)

Type:—[SERBIA]. M. [Monte] Javor Serb. merid. [Serbia meridionalis], 857 [1857], Pančić *s.n.* (lectotype designated here: PAD-H0024681!).

Additional specimens examined:—SERBIA. Pratis M. [Monte] Javor / C. Užicens, 2500', Jul. [Julio] 846 [1846], Pančić *s.n.* (PAD-H0024682!); SERBIA. Užice district: M. Vasilin vrh [Mt. Javor, top of Vasilin vrh] u Užičkoj, *s.d.*, Pančić *s.n.* (BEOU 6438!).

Acer macropterum Visiani (1860: 175)

Type:—SERBIA. M. [Monte] Jastrebac S. mer. [Serbia meridionalis], Aug [August] 1856, *Pančić s.n.* (lectotype designated here: BEOU 3798!).

Additional specimens examined:—SERBIA. Jastrebac, J. Pančić, Aug [Augusto] - 1856 (BEOU 3798!).

Note:—This specimen fits with the protologue and was collected before its publication, being therefore suitable for typification. The new label was written by Pančić after Visiani formally described the new species. This taxon is now generally included in *Acer heldreichii* Orph. ex Boissier (1856: 71), sometimes as *A. heldreichii* subsp. *visianii* Malý (1908: 219), e.g. in Tutin (1968) or *A. heldreichii* var. *macropterum* (Vis.) Pax (1886: 194), e.g. in Perović (2007). When he created the subspecies, Malý intended to base his name on *Acer visianii* Nyman (1878: 135), but that is an illegitimate replacement for Visiani's name, that Nyman created as he attributed priority to "*A. macropterum* Gussone", which apparently was never published. Therefore, according to Art. 7.5, 7.7 and 7.3 of the ICN (McNeill et al. 2012), the type of *A. macropterum* that we have selected is also the type of *A. heldreichii* subsp. *visianii* and *A. heldreichii* var. *macropterum*, two names now in use. A fossil species from England was given the name *Acer macropterum* Heer (1869: 37). It was renamed *Acer grahamensis* Knowlton & Cockerell in Knowlton (1919: 50) to correct the homonymy. A new species from Tibet was described under the name *Acer macropterum* T.Z.Hsu & H.Sun in Xu et al. (1997: 29). It is now generally considered a synonym of *Acer laurinum* Hasskarl (1843: 138), see for instance Wu et al. (2008), therefore we do not propose any replacement name here.

Acknowledgements

We gratefully acknowledge the Department of Biology of the University of Padova and the financial support provided by the Serbian Ministry of Science and Technological Development (project no. 173030). The work of the third author was supported by OTKA104443 grant. The **Distributed European School of Taxonomy** (DEST) granted the Botanical Nomenclature Course to the second author. Finally, we wish to thank Dr. Benjamin van Ee, our subject editor Dr. Lorenzo Peruzzi, and the two anonymous reviewers for their very helpful suggestions to improve this work.

References

- Boissier, E. (1856) *Diagnoses plantarum orientalium novarum – series secunda, N°5.* B. Herrmann, Lipsiae, 118 pp.
- Conti, F., Abbate, G., Alessandrini, A. & Blasi, C. (2005) *An annotated checklist of the Italian vascular flora.* Palombi Editori, Roma, 420 pp.
- Engler, A. & Prantl, K. (1898) *Die Natürlichen Pflanzenfamilien nebst ihren Gattungen und wichtigeren Arten insbesondere den Nutzpflanzen unter Mitwirkung zahlreicher hervorragender Fachgelehrten, Abteil 8.* Wilhelm Engelmann, Leipzig, 274 pp.
<http://dx.doi.org/10.5962/bhl.title.4635>
- Euro+Med 2014 *Euro+Med PlantBase – the information resource for Euro-Mediterranean plantdiversity.* Available from: <http://ww2.bgbm.org/EuroPlusMed> (accessed: March 2014).
- Greuter, W. (2003) *The Euro+Med treatment of Cichorieae (Compositae) – generic concepts and required new names.* Willdenowia 33: 229–238.
- Hasskarl, C. (1843) Adnotationes de plantis quibusdam Javanicis nonnulliusque Japonicis, haud rite cognitis, e Catalogo Horti Bogoriensis excerptae. Accedunt nonnullae novae species. *Tijdschrift voor natuurlijke geschiedenis en physiologie* 10: 115–150.
- Heer, O. (1869) Flora Fossilis Alaskana / Fossile Flora von Alaska. *Kungliga Svenska Vetenskaps-Akademiens Handlingar* 8(4), 1–41.
- Knowlton, F. H. (1919) *A Catalogue of Mesozoic and Cenozoic Plants of North America.* U. S. Geological Survey Bulletin 696, 815 pp.
- IPNI (2014, continuously updated) *The International Plant Names Index.* Available from: <http://www.ipni.org> (accessed: 2014).
- Linnaeus, C. (1753) *Species Plantarum. Laurentii Salvii, Holmiae,* 1200 pp.
- McNeill, J., Barrie, F.R., Buck, W.R., Demoulin, V., Greuter, W., Hawksworth, D.L., Herendeen, P.S., Knapp, S., Marhold, K., Prado, J., Prud'Homme Van Reine, W.F., Smith, G.F., Wiersema, J.H. & Turland, N.J. (2012) *International Code of Nomenclature for algae, fungi, and plants (Melbourne Code) adopted by the Eighteenth International Botanical Congress Melbourne, Australia, July 2011.*

- [Regnum Vegetabile 154]. Gantner, Ruggell, 240 pp.
- Malý, K.F.J. (1908) Beiträge zur Kenntnis der illyrischen Flora. (Adatok az illyrikos Flora ismeretéhez). *Magyar Botanikai Lapok - Ungarische Botanische Blätter* 7: 203–240.
- Mitranović, D. (1964) *Pančićev život*. Posebna izdanja SANU, Odeljenje prirodno-matematičkih nauka, Beograd, 181 pp.
- Nyman, C.F. (1878) *Conspectus Florae Europæ, seu enumeratio methodica plantarum phanerogamarum Euopæ indigenarum, indicatio distributionis geographicae singularium etc.* Officinæ Bohlinianæ, Örebro, 858 pp.
<http://dx.doi.org/10.5962/bhl.title.10533>
- Pančić, J. (1856) Verzeichniss der in Serbien wildwachsenden Phanerogamen, nebst den Diagnosen einiger neuer Arten. *Verhandlungen des Zoologisch-botanischen Vereins in Wien* 6: 475–598.
<http://dx.doi.org/10.5962/bhl.title.9881>
- Pax, F. (1886) Monographie der Gattung *Acer*. *Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie* 7: 177–263.
- Perović, M. (2007) Morphometric characteristics of the leaves of Greek maple (*Acer heldreichii* Orph.) in central Serbia. *Glasnik Sumarskog fakulteta* 96: 69–82.
- The International Plant Names Index (2014) Available from: <http://www.ipni.org> (accessed: 2014).
- Thiers, B. (2014, continuously updated) *Index Herbariorum: A global directory of public herbaria and associated staff*. New York Botanical Garden's Virtual Herbarium. Available from: <http://sweetgum.nybg.org/ih/> (accessed: 2014).
- Tutin, T. G., Heywood, V. H., Burges, N. A., Moore, D. M., Valentine, D. H., Walters, S. M., Webb, D. A., Ball, P. W., Chater, A. O. & Ferguson, I. K. (1968) *Flora Europaea* 2. Cambridge University Press, Cambridge, 455 pp.
- Visiani, R. de (1858) *Semina in horto botanico Patavino lecta anno 1857*. Praem. Don. Typ. et Lith. P. Prosperini, Patavii, 9 pp.
- Visiani, R. de (1859) *Ad catalogum seminum in horto botanico Patavino lectorum anno 1857 supplementum anni 1858*. Praem. Don. Typ. et Lith. P. Prosperini, Patavii, 3 pp.
- Visiani, R. de (1860). Plantarum serbicularum pemptas ossia descrizione di cinque piante serbiane illustrate dal M. E. Prof. Roberto de Visiani. *Memorie del Reale Istituto Veneto di Scienze, Lettere ed Arti* 9: 165–175.
- Visiani, R. de & Pančić, J. (1862) Plantae serbicae rariores aut novae – Decas I. *Memorie del Reale Istituto Veneto di Scienze, Lettere ed Arti* 10: 425–450.
- Visiani, R. de & Pančić, J. (1865) Plantae serbicae rariores aut novae – Decas II. *Memorie del Reale Istituto Veneto di Scienze, Lettere ed Arti* 12: 461–478.
- Visiani, R. de & Pančić, J. (1870) Plantae serbicae rariores aut novae – Decas III. *Memorie del Reale Istituto Veneto di Scienze, Lettere ed Arti* 15: 1–21.
- Vukojičić, S., Lakušić, D., Jovanović, S., Marin, P.D., Tomović, G., Saboljević, M., Šinžar-Sekulić, J., Veljić, M., Cvijan, M., Blaženčić, J. & Stevanović, V. (2011) University of Belgrade Herbarium treasury of data and challenges for future research. On the occasion of the 150th anniversary of the University of Belgrade Herbarium (1860–2010). *Botanica Serbica* 35: 163–178.
- Wu Z.Y., Raven, P.H. & Hong, D.Y. (2008) *Flora of China, Text Volume 11, Oxalidaceae through Aceraceae*. Missouri Botanical Garden Press, 622 pp.
- Xu, T., Sun, H. & Zhou, Z. (1997) Three new species of *Acer* from Medong, SE Tibet. *Acta botanica Yunnanica* 19: 29–32.