

Typification of *Bauhinia didyma* H.Y.Chen, the basionym of *Cheniella didyma* (H.Y.Chen) R.Clark & Mackinder (Leguminosae: Cercidoideae)

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बौहिनिया डिडायमा एच. वाई. चैन, चेनिएला डिडायमा (एच. वाई. चैन) आर. क्लार्क एवं मैकिन्डर (लेगुमिनोसि: सरसीडोईडी) के मूलनाम का प्ररुपण

सुबीर बन्दोपाध्याय एवं आनंद कुमार

सारांश

चेनिएला डिडायमा (एच. वाई. चैन) आर. क्लार्क एवं मैकिन्डर का मूलनाम बौहिनिया डिडायमा एच. वाई. चैन के प्ररुपण पर चर्चा किया गया है।

ABSTRACT

Discussion has been made on the types of *Bauhinia didyma* H.Y. Chen, the basionym of *Cheniella didyma* (H.Y. Chen) R. Clark & Mackinder.

Keywords: Holotype, Miami University herbarium, Oberlin College herbarium

INTRODUCTION

Chen (1938) in the protologue of *Bauhinia didyma* H.Y. Chen cited 'KWANGTUNG: Yeungchun; scandent, flower white, fruit green, C. Wang 38777, Nov. 16, 1935 (Oberlin College)'. From Index herbariorum (Thiers, 2021) we came to know that from the 180,000 original collections at Oberlin College Herbarium (OC), 150,000 non-Ohio specimens were transferred to Miami University Herbarium (MU) in 1967 and 30,000 Ohio specimens to Ohio State University Herbarium (OS) in the early 1990s. We contacted Director of MU and came to know that there is only a single specimen (MU000000145 image!) matching with all details given in the protologue of *B. didyma* H.Y. Chen and annotated by Michael A. Vincent as 'Holotype' on 19 Nov. 1987 (JSTOR, 2021). Vincent (1991) also considered this specimen as the holotype. The sheet had originally the number 87440 of the herbarium of Oberlin College, then given the number 42065 at MU and finally the barcode MU000000145. On the right hand side at the bottom of the herbarium specimen there is a printed label 'EX HERB. BOTANICAL INSTITUTE,

COLLEGE OF AGRICULTURE, SUN YATSEN UNIVERSITY, CANTON CHINA' whose acronym is SYS [presently Zhongshan (Sun Yatsen) University herbarium]. Chen (1939) mentioned 'KWANGTUNG: Yeungchun; C. Wang 38777, type, Nov. 16, 1935 (O); duplicate of type (SYS)'. Chen (1939) cited 'O' as the acronym of the herbarium of the Oberlin College. We had a bit of confusion in accepting MU000000145 as the holotype because the characters 'Inflorescentiae racemosae, terminalis, solitariae, sparsely pubescentes' given in the protologue of *B. didyma* where not in the holotype specimen but both Drs. J. McNeill and K.N. Gandhi (pers. comm.) feel that the specimen at MU is the holotype. Dr. McNeill additionally informed us that a type does not necessarily display all the features of the taxon as set out in the protologue, and H.Y.Chen might well have seen other specimens that were not cited in the protologue. We feel that there is a possibility that the isotype at SYS (n.v.) which was not cited in the protologue might have the inflorescence or the inflorescence might have fallen off from the holotype.

Clark & al. (2017) cited the types of *B. didyma* as: ‘China, Kwangtung, Yeungchun, 16 Nov. 1935, Wang 38777 (fl., fr.) (syn-: IBK00068594!, IBSC00044775, IBSC0004477, OC, PE00323954 image!, PE00323955 image!)’ and stated that lectotypification was not carried out as the authors had not seen all of the syntypes, and of those seen, none were flower-bearing. In fact, Chen (1938) in the protologue of *B. didyma* mentioned ‘flores ignotae’. Thus the original material cannot have flowers. Furthermore, there can be no syntypes when a holotype is present and so there is no question of lectotypification. IBK00068594 image!, having the determinavit slip by Luetta Chen (alternative name of H.Y.Chen), as in the holotype, might be one of the original material but unlikely to be one of the isotypes because the date of collection is 14th Nov. 1935 instead of 16th Nov. 1935 (CVH, 2021).

TYPIFICATION

Cheniella didyma (H.Y.Chen) R.Clark & Mackinder, Eur. J. Taxon. 360: 21. 2017. *Bauhinia didyma* H.Y.Chen, J. Arnold Arbor. 19: 131. 1938.

Type: China, Kwangtung: Yeungchun, 16 Nov. 1935, C. Wang 38777 (holotype MU000000145 image!); isotypes SYS n.v., IBSC0004475 n.v., IBSC0004477 n.v., PE00323954 image!, PE00323955 image!, A00059760 image! a sheet with the photograph of the holotype, two loose leaves and with the inscription ‘fragment of type’ on the packet, n.v.).

Notes: We have cited *C. didyma* as the accepted name but Sinou & al. (2020) felt that *Cheniella* may, with better sampling of species in the Asian *Phanera* clade and with more molecular data, have to be synonymised under *Phanera*.

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