

New combinations in Orchidaceae of Asia

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Abstract: New combinations are made here for 22 Asian species of Orchid belonging to 11 genera. These combinations are needed to comply with current taxonomic concepts of the respective genus. In addition, lectotypes are designated for the names *Eria decipiens* Schltr., *Microstylis lancifolia* Thwaites and *Listera latilabra* Evrard ex Gagnep.

Keywords: Asian, Cambodia, China, Endemic, India, Indonesia, Malaysia, Sri Lanka, Thailand, Vietnam

Introduction

The recent molecular studies of the family Orchidaceae have changed the generic concept, delimitation and classification within the family. Based on the current, stable and wider generic circumscriptions in the family Orchidaceae (Pridgeon et al., 2001, 2005 & 2014; Bateman, 2009; Kocyan & Schuiteman, 2014; Vermeulen et al., 2014; Chase et al., 2015 & 2021; Tang et al., 2015a & 2015b; Yukawa, 2016), new combinations are required for 22 species of Asian orchid belonging to 11 genera (*Brachycorythis* Lindl., *Bulbophyllum* Thouars, *Coelogyne* Lindl., *Crepidium* Blume, *Cylindrolobus* Blume, *Hemipilia* Lindl., *Liparis* Rich., *Neottia* Guett., *Phalaenopsis* Blume, *Robiquetia* Gaudich. and *Silvorchis* J.J.Sm.), which are made here. To fix the identity and to avoid misapplication of names, lectotypes are designated here for *Eria decipiens* Schltr., *Microstylis lancifolia* Thwaites and *Listera latilabra* Evrard ex Gagnep., because no holotypes were cited in the protologues, and so far, they have not been typified. In lectotypifications, the guidelines and recommendations of Article 9 of ICN (Turland et al., 2018) were followed.

New combinations

Brachycorythis Lindl. (Orchidoideae, Orchideae, Orchidinae)

Type species: *Brachycorythis ovata* Lindl.

Brachycorythis brevicealcarata (Szlach. & Oledrz.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Phyllomphax brevicealcarata* Szlach. & Oledrz., Biodivers. Res. Conservation 62: 16. 2021.

Holotype: Cambodia, Kratie district, Sambour, Mekong River, Kring Island, 30 m, 31 July 2007, *Maxwell 07-449* (AMES).

Distribution: Endemic to Cambodia.

Notes: Szlachetko et al. (2006) designated the type species for *Phyllomphax* Schltr. as *P. macrantha* (Lindl.) Summerh. (≡ *Gymnadenia macrantha* Lindl.) and the current accepted name for this species is *Brachycorythis macrantha* (Lindl.) Summerh.

Brachycorythis seidenfadeniana (Szlach. & Oledrz.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Phyllomphax seidenfadeniana* Szlach. & Oledrz., Biodivers. Res. Conservation 62: 14. 2021.

Holotype: Thailand, Thung Chalee, Nang Yon, Phang Nga, 150 m, 20 July 1979, *Niyondham et al. 353* (AMES).

Distribution: Endemic to Thailand.

Notes: This species is similar in habit with *Brachycorythis acuta* (Rchb.f.) Summerh. (Olędrzyńska & Szlachetko, 2021).

Brachycorythis siamensis (Szlach. & Oledrz.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Phyllomphax siamensis* Szlach. & Oledrz., Biodivers. Res. Conservation 62: 17. 2021.

Holotype: Thailand, Chianguai, Muang Payas, 11 July 1931, *Putt 3967* (AMES).

Distribution: Endemic to Thailand.

Notes: This species is similar in habit with two Indian endemic species *Brachycorythis wightii* Summerh. and *B. splendida* Summerh. (Olędrzyńska & Szlachetko, 2021).

Bulbophyllum Thouars (Epidendroideae, Malaxideae, Dendrobiinae)

Type species: *Bulbophyllum nutans* Thouars

Bulbophyllum zeylanicum (C.S.Kumar & Garay) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Rhytionanthos zeylanicus* C.S.Kumar & Garay, Proc. 20th World Orchid Conf. 118. 2013.

Holotype: Sri Lanka, without exact locality (K).

Distribution: Endemic to Sri Lanka.

Notes: The type species of *Rhytionanthos* Garay, Hamer & Siegerist is *Cirrhopetalum cornutum* Lindl. [= *Rhytionanthos cornutum* (Lindl.) Garay, Hamer & Siegerist] and the current accepted name for this species is *Bulbophyllum helenae* (Kuntze) J.J.Sm.

Coelogyne Lindl. (Epidendroideae, Arethuseae, Coelogyneae)

Type species: *Coelogyne cristata* Lindl.

Coelogyne sagittata (T.C.Hsu, H.C.Hung & Luu) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Panisea sagittata* T.C.Hsu, H.C.Hung & Luu, *Taiwania* 65(2): 245. 2020.

Holotype: Vietnam, Lam Dong Province, Lac Duong district, Da Chais Commune, Bidoup-Nui Ba National Park, around Hon Giao Station, 1880 m, 19 September 2018, T.C. Hsu 10893 (SGN).

Distribution: Endemic to Vietnam.

Notes: The type species of *Panisea* (Lindl.) Lindl. [= *Coelogyne* sect. *Panisea* Lindl.] is *Dendrobium demissum* D.Don and the current accepted name for this species is *Coelogyne demissa* (D.Don) M.W.Chase & Schuit.

Crepidium Blume (Epidendroideae, Malaxideae, Malaxidinae)

Type species: *Crepidium rheedei* Blume

Crepidium discolor (Lindl.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Microstylis discolor* Lindl., *Gen. Sp. Orchid. Pl.* 20. 1830. *Malaxis discolor* (Lindl.) Kuntze, *Revis. Gen. Pl.* 2: 673. 1891. *Seidenfia discolor* (Lindl.) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 122. 1995.

Holotype: Sri Lanka, without exact locality, 1829, *Macrae* 3 (K000873797, Figure 1).

Distribution: Endemic to Sri Lanka.

Crepidium lancifolium (Thwaites) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Microstylis lancifolia* Thwaites, *Enum. Pl. Ceyl.* 297. 1861. *Malaxis lancifolia* (Thwaites) Kuntze, *Revis. Gen. Pl.* 2: 673. 1891, *nom. illeg., non* Sm., *Cycl.* [A. Rees], (London ed.) 22, n. 7. 1812. *Malaxis thwaitesii* Bennet, *Indian J. Forest.* 5(4): 326. 1982. *Seidenfia lancifolia* (Thwaites) Szlach., *Fragm. Florist. Geobot., Suppl.* 3: 122. 1995.

Lectotype (designated here): Sri Lanka, Saffragon district, *s.d.*, G.H.K. Thwaites CP2742 (MH00003112!, Figure 2); isoelectotypes BR0000020451721!, GH00101665! (Figure 3), GOET008613!, P00408499! (Figure 4), P00408500!, P00408501!,

Distribution: Endemic to Sri Lanka.

Notes: Thwaites (1861) described *Microstylis lancifolia* based on the specimens of his collection number

CP2742 from Safragon district, Sri Lanka. Seven specimens collected by Thwaites from Safragon district, Sri Lanka were traced (BR0000020451721, GH00101665, GOET008613, MH00003112, P00408499, P00408500 and P00408501). Of these, the better-preserved specimen MH00003112, is designated here as the lectotype as it agrees well with the protologue.

Crepidium manikathilum (J.B.Mathew, P.M.Salim & Szlach.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Seidenfia manikathila* J.Mathew, P.M.Salim & Szlach., Biodivers. Res. Conservation 64: 3, f. 2 & 3. 2022.

Holotype: India, Kerala, Idukki district, Rajamala Hills, 1400 m, 15 July 2018, *Jose Mathew 4011* (KUBH).

Distribution: Endemic to India (Kerala).

Notes: The type species of *Seidenfia* Szlach. is *Malaxis rheedei* Sw. [≡ *Seidenfia rheedei* (Sw.) Szlach.] and the current accepted name for this species is *Crepidium resupinatum* (G.Forst.) Szlach.

Cylindrolobus Blume (Epidendroideae, Podochileae)

Type species: *Cylindrolobus compressus* (Blume) D.Dietr. (≡ *Ceratium compressum* Blume)

Cylindrolobus decipiens (Schltr.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Eria decipiens* Schltr., Repert. Spec. Nov. Regni Veg. 10: 85. 1911. *Aporodes decipiens* (Schltr.) W.Suarez & Cootes, Austral. Orchid Rev. 73(5): 33. 2008.

Lectotype (designated here): Indonesia, Sulawesi, near Toli-Toli, 5 m, 26 January 1910, *F.R.R. Schlechter 20692* (AMES00099229!, Figure 5); isolectotypes K000827477!, L0043495!, NSW830747!.

Distribution: Endemic to Sulawesi, Indonesia.

Notes: Four original specimens for the name *Eria decipiens* Schltr. were traced (AMES00099229, K000827477, L0043495 and NSW830747). Among these, the better-preserved specimen AMES00099229, is designated here as the lectotype as it agrees well with the protologue.

Hemipilia Lindl. (Orchidoideae, Orchideae, Orchidinae)

Type species: *Hemipilia cordifolia* Lindl.

Hemipilia gongshanensis (X.H.Jin, Schuit. & D.L.Lin) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Ponerorchis gongshanensis* X.H.Jin, Schuit. & D.L.Lin, Pl. Diversity 43(5): 398, f. 10. 2021.

Holotype: China, Yunnan province, Gongshan County, Gaoligong Mountains, 2918 m, 24 June 2020, *X. Jin & D. Lin 31207* (PE).

Distribution: Endemic to China.

Notes: The type species of *Ponerorchis* Rchb.f. is *P. graminifolia* Rchb.f. and the current accepted name for this species is *Hemipilia graminifolia* (Rchb.f.) Y.Tang, H.Peng & T.Yukawa.

Hemipilia kaiyangense (S.Z.He & Yong Wang) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Amitostigma kaiyangense* S.Z.He & Yong Wang, *Phytotaxa* 547(1): 115. 2022.

Holotype: China, Guizhou province, Kaiyang County, 900 m, 16 Jun 2009, S.Z. He 090616 (GZTM).

Distribution: Endemic to China.

Notes: The type species of *Amitostigma* Schltr. (≡ *Mitostigma* Blume, *non* Decne.) is *A. gracile* (Blume) Schltr. (≡ *Mitostigma gracile* Blume) and the current accepted name for this species is *Hemipilia gracilis* (Blume) Y.Tang, H.Peng & T.Yukawa.

Hemipilia nanooides (Schuit. & X.H.Jin) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Apetalanthe gracilis* Aver. & Vuong, *Taiwania* 65(4): 479. 2020. *Ponerorchis nanooides* Schuit. & X.H.Jin, *Pl. Diversity* 43(5): 399. 2021.

Holotype: Vietnam, Lao Cai province, Fansipan Mountain, 23 June 2019, B.V. Truong & T.L. Nguyen AL1238 (LE01076866!, Figure 6).

Distribution: Vietnam and India (Arunachal Pradesh). Reported from Arunachal Pradesh, India (<https://efloraofindia.com/2024/08/02/apetalanthe-gracilis/>; <https://www.flowersofindia.net/catalog/slides/Graceful%20Petallless%20Orchid.html>).

Hemipilia papilionacea (Tang, F.T.Wang & K.Y.Lang) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

Amitostigma papilionaceum Tang, F.T.Wang & K.Y.Lang, *Acta Phytotax. Sin.* 20(1): 83. 1982. *Ponerorchis papilionacea* (Tang, F.T.Wang & K.Y.Lang) X.H.Jin, Schuit. & W.T.Jin, *Molec. Phylogen. Evol.* 77: 51. 2014.

Holotype: China, Sichuan province, Songpan, Zhenjianguan, 2500 m, 5 July 1922, H. Smith 2932B (PE00027311!, Figure 7).

Distribution: Endemic to China.

Hemipilia pathakiana (Av.Bhattacharjee) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Amitostigma pathakianum* Av.Bhattacharjee, *Phytotaxa* 230(3): 268. 2015. *Ponerorchis pathakiana* (Av.Bhattacharjee) J.M.H.Shaw, *Orchid Rev. Suppl.*, 125(1319): 59. 2017.

Holotype: India, Arunachal Pradesh, Upper Siang district, Kamatukut to Kanebango, 2800–3400 m, 5 August 2012, M.K. Pathak 54472 (CAL0000025155!, Figure 8); isotype CAL0000025156!.

Distribution: Endemic to India (Arunachal Pradesh).



Figure 1: Holotype of *Microstylis discolor* Lindl. (K000873797, © The Trustees of the Royal Botanic Gardens, Kew)

Hemipilia wolongensis (G.W.Hu, Yue H.Cheng & Q.F.Wang) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Ponerorchis wolongensis* G.W.Hu, Yue H.Cheng & Q.F.Wang, *Nordic J. Bot.* 2022(2)-e03295: 2. 2021.

Holotype: China, Sichuan province, Wenchuan County, Wolong National Nature Reserve, 2860 m, 28° 58' 13" N 102° 13' 49" E, 1 September 2020, Y.H. Cheng PS-00309 (HIB).

Distribution: Endemic to China.

Liparis Rich. (Epidendroideae, Malaxideae, Malaxidinae)

Type species: *Liparis loeselii* (L.) Rich. (≡ *Ophrys loeselii* L.)

Liparis malipoensis (G.D.Tang, X.Y.Zhuang & Z.J.Liu) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Platystyliparis malipoensis* G.D.Tang, X.Y.Zhuang & Z.J.Liu, *Guihaia* 35(4): 461. 2015.

Holotype: China, Yunnan province, Malipo, 1400 m, 27 February 2009, Z.J. Liu 4416 (NOCC).

Distribution: Yunnan province, China and Hà Giang Vietnam (Tang et al., 2015a).

Notes: *Platystyliparis malipoensis* is allied to *Liparis assamica* King & Pantl. (Tang et al., 2015a).



Figure 2: Lectotype of *Microstylis lancifolia* Thwaites (MH00003112, © Madras Herbarium, Botanical Survey of India, SRC, Coimbatore)



Figure 3: Isolectotype of *Microstylis lancifolia* Thwaites (GH00101665, © The Gray Herbarium, Harvard University, Cambridge, Massachusetts)



Figure 4: Isolectotype of *Microstylis lancifolia* Thwaites (P00408499, © Muséum National d'Histoire Naturelle, Paris)

Neottia Guett. (Epidendroideae, Neottieae)

Type species: *Neottia nidus-avis* (L.) Rich. (\equiv *Ophrys nidus-avis* L.)

Neottia anthropophora (Aver. & V.C.Nguyen) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

\equiv *Listera anthropophora* Aver. & V.C.Nguyen, *Phytotaxa* 658(1): 3. 2024.

Holotype: Vietnam, Lao Cai province, Bat Xat district, c. 2500 m, 3 November 2023, *N.V. Canh, L. Averyanov & T. Maisak AL2439* (LE01253791!, Figure 9).

Distribution: Endemic to Vietnam.

Notes: The type species of *Listera* R.Br. is *L. ovata* (L.) R.Br. (\equiv *Ophrys ovata* L.) and the current accepted name for this species is *Neottia ovata* (L.) Hartm.

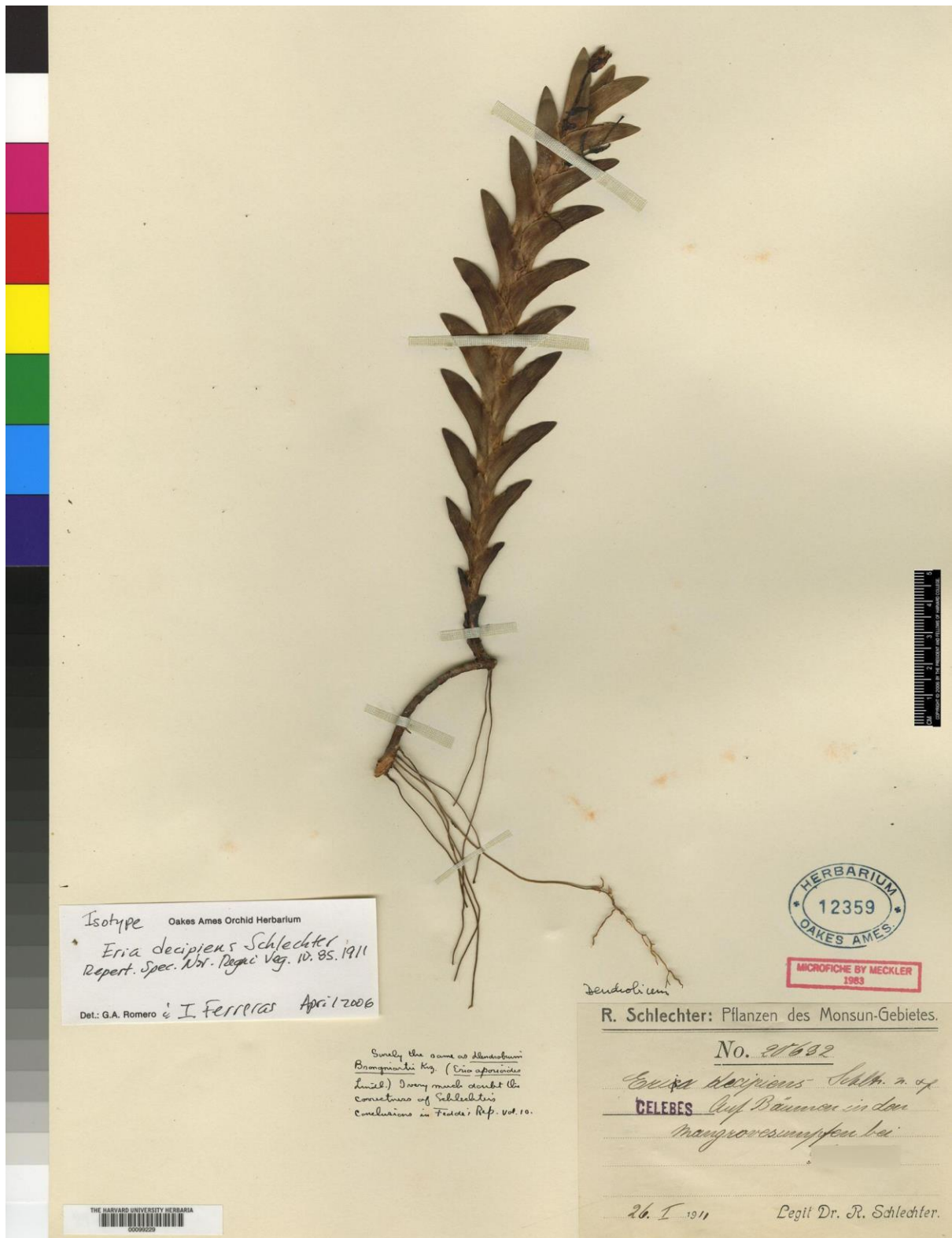


Figure 5: Lectotype of *Eria decipiens* Schltr. (AMES00099229, © Orchid Herbarium of Oakes Ames, Harvard University, Cambridge, Massachusetts)



Figure 6: Holotype of *Apetalanthe gracilis* Aver. & Vuong (LE01076866, © Herbarium of the Komarov Botanical Institute, Saint Petersburg)

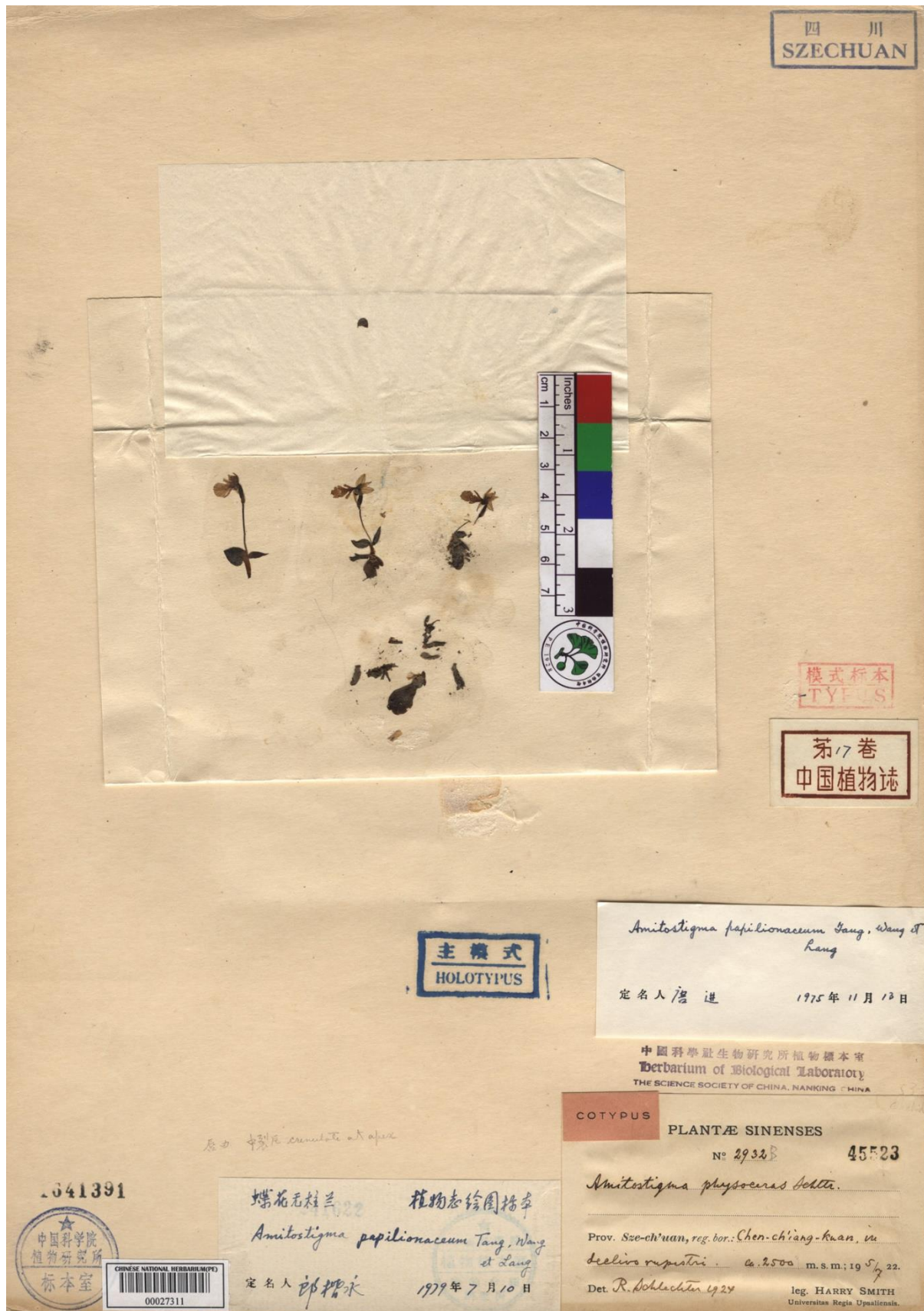


Figure 7: Holotype of *Amitostigma papilionaceum* Tang, F.T.Wang & K.Y.Lang (PE00027311, © Herbarium of Institute of Botany, Chinese Academy of Sciences, Beijing)



Figure 8: Holotype of *Amitostigma pathakianum* Av. Bhattacharjee (CAL0000025155, © Central National Herbarium, Botanical Survey of India, Howrah)



Figure 9: Holotype of *Listera anthropophora* Aver. & V.C.Nguyen (LE01253791, © Herbarium of the Komarov Botanical Institute, Saint Petersburg)

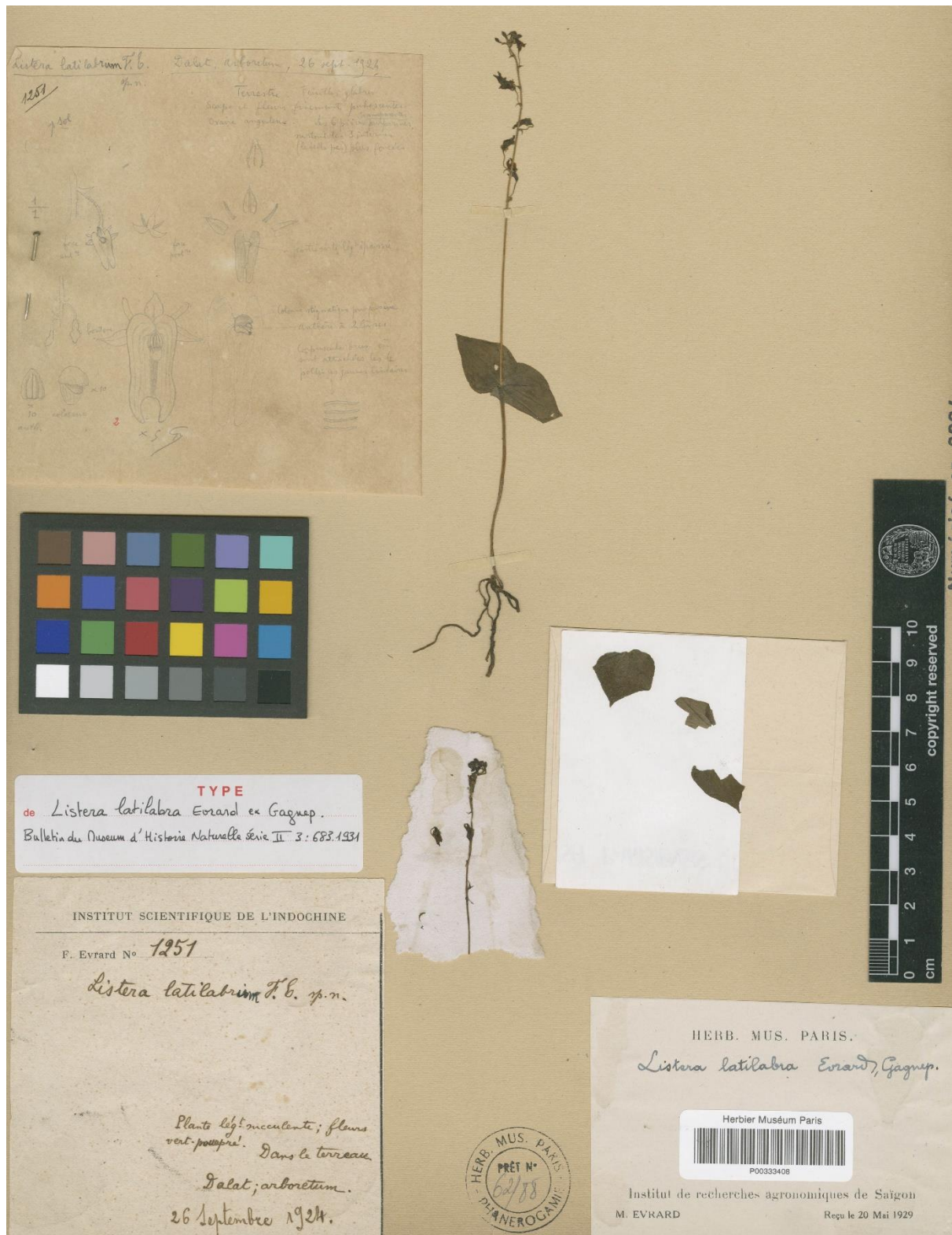


Figure 10: Lectotype of *Listera latilabra* Evrard ex Gagnep. (P00333408, © Muséum National d'Histoire Naturelle, Paris)

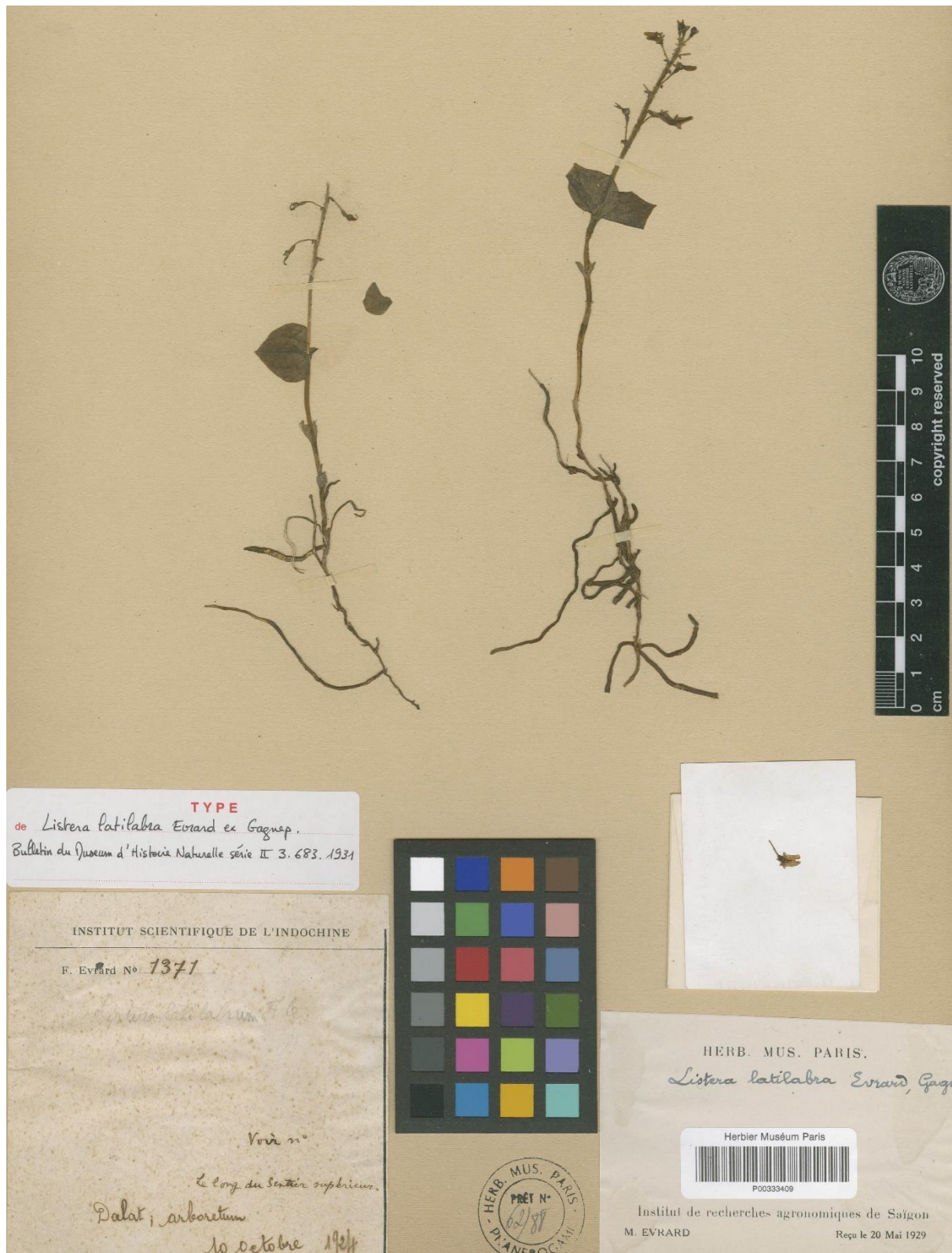


Figure 11: Isolectotype of *Listera latilabra* Evrard ex Gagnep. (P00333409, © Muséum National d'Histoire Naturelle, Paris)

Neottia latilabra (Evrard ex Gagnep.) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Listera latilabra* Evrard ex Gagnep., Bull. Mus. Natl. Hist. Nat., sér. 2, 3: 683. 1931.

Lectotype (designated here): Vietnam, Dalat, 26 September 1924, *F. Evrard 1251* (P00333408!, Figure 10).

Remaining syntype: Vietnam, Dalat, 10 October 1924, *F. Evrard 1371* (P00333409!, Figure 11).

Distribution: Endemic to Vietnam.

Notes: Two original specimens were traced for the name *Listera latilabra* Evrard ex Gagnep. at P (P00333408 and P00333409). The better-preserved specimen P00333408, is designated here as the lectotype as it agrees well with the protologue.

Neottia pekinensis (X.Y.Mu & Bing Liu) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Holopogon pekinensis* X.Y.Mu & Bing Liu, Phytotaxa 326(2): 151. 2017.

Holotype: China, Yanqing district, Beijing, Yudu Mountain, c. 1000 m, 16 August 2017, *X.Y. Mu, L. Tong & Y.X. Zhu 4064* (BJFC).

Distribution: Endemic to China.

Notes: The type species of *Holopogon* Kom. & Nevski is *H. ussuriensis* Kom. & Nevski and the current accepted name for this species is *Neottia ussuriensis* (Kom. & Nevski) Soó.

Phalaenopsis Blume (Epidendroideae, Vandeae, Aeridinae)

Type species: *Phalaenopsis amabilis* (L.) Blume (≡ *Epidendrum amabile* L.)

Phalaenopsis sabahensis (R.Rice) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Ornithochilus sabahensis* R.Rice, Photo Intro Vandoid Orchid Gen. Asia 154. 2018.

Holotype: Malaysia, Sabah, Crocker Range, *Lamb AL 265/84* (K).

Distribution: Endemic to Crocker Mountains range, Sabah, Malaysia.

Notes: The type species of *Ornithochilus* (Lindl.) Wall. ex Heynh. (≡ *Aerides* sect. *Ornithochilus* Lindl.) is *O. difformis* (Wall. ex Lindl.) Schltr. (≡ *Aerides difformis* Wall. ex Lindl.) and the current accepted name for this species is *Phalaenopsis difformis* (Wall. ex Lindl.) Kocyan & Schuit.

Robiquetia Gaudich. (Epidendroideae, Vandeae, Aeridinae)

Type species: *Robiquetia ascendens* Gaudich.

Robiquetia micrantha (Aver. & Vuong) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Malleola micrantha* Aver. & Vuong, Phytotaxa 555(2): 122. 2022.

Holotype: Vietnam, Lam Dong province, Dalat city area, 20 April 2019, *T.B. Vuong & N.Q. Dang BV 407* (VNM).

Distribution: Endemic to Vietnam.

Notes: The type species *Robiquetia sphingoides* (J.J.Sm.) Kocyan & Schuit. (≡ *Malleola sphingoides* J.J. Sm.) cited for *Malleola* J.J. Sm. & Schltr. in Garay, Bot. Mus. Leaflet. 23(4): 184. 1972 and Aver., Bot. Zhurn. (Moscow & Leningrad) 76(6): 894. 1991, is invalid because the name *M. sphingoides* J.J. Sm. was not mentioned in the protologue of *Malleola*. However, Alrich & Higgins (2011) mentioned *M. undulata* J.J.Sm. & Schltr. [currently accepted as *Robiquetia sylvestris* (Ridl.) Kocyan & Schuit.] as the type species for *Malleola*.

Silvorchis J.J.Sm. (Orchidoideae, Orchideae, Orchidinae)

Type species: *Silvorchis colorata* J.J. Sm.

Silvorchis proboscidea (Aver., Vuong & V.C.Nguyen) R.Kr.Singh & Sanjeet Kumar, *comb. nov.*

≡ *Vietorchis proboscidea* Aver., Vuong & V.C.Nguyen, Phytotaxa 619(4): 269. 2023.

Holotype: Vietnam, Lam Dong province, Dam Rong district, Lien Srong Commune, 28 April 2023, *T.B. Vuong & N.V. Canh BV 1716* (VNM00063991).

Distribution: Endemic to Vietnam.

Notes: The type species of *Vietorchis* Aver. & Averyanova is *V. aurea* Aver. & Averyanova and the current accepted name for this species is *Silvorchis aurea* (Aver. & Averyanova) Szlach.

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- Chelonistele*, *Dendrochilum*, *Dickasonia*, *Entomophobia*, *Geesinkorchis*, *Gynoglottis*, *Ischnogyne*, *Nabalua*, *Neogyne*, *Otochilus*, *Panisea* and *Pholidota*. *Phytotaxa* 510(2): 94–134. <https://doi.org/10.11646/phytotaxa.510.2.1>
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