

# New combinations in *Kryptostoma* and *Renzorchis* (Orchidaceae, Habenariinae)

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Seven new combinations in *Kryptostoma* (Summerh.) Geerinck emend. Szlach. and *Renzorchis* Szlach. & Olsz. (Orchidaceae, Habenariinae) are proposed.

Key words: Orchidaceae, Habenariinae, *Kryptostoma*, *Renzorchis*, nomenclature

Subtribe Habenariinae of the Orchidaceae has been poorly investigated taxonomically. Especially *Habenaria* Willd., the central genus of the subtribe, needs much further studies. During the last few years some new genera, such as *Ala* Szlach. (Szlachetko 1995), *Kryptostoma* (Summerh.) Geerinck emend. Szlach. (Géerinck 1982, Szlachetko 1995), *Renzorchis* Szlach. & Olsz. (Szlachetko & Olszewski 1998a), *Podandriella* Szlach. in Szlach. & Olsz., and *Veyretella* Szlach. & Olsz. (Szlachetko & Olszewski 1998b) have been described within Habenariinae.

The new combinations proposed in this work extend the known geographic ranges of the genera *Renzorchis* and *Kryptostoma*. Previously, *Renzorchis* was recorded only from Gabon (Szlachet-

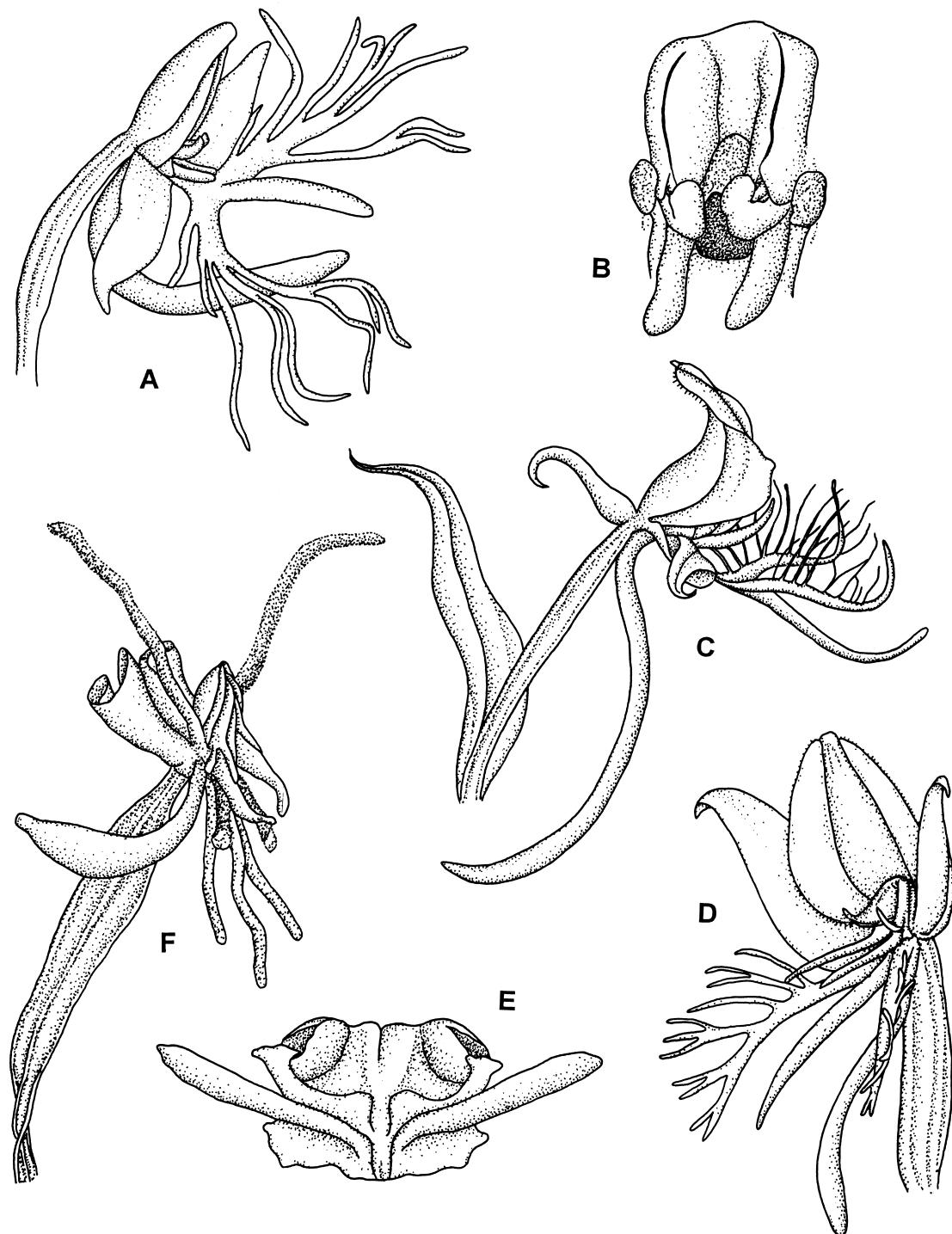
ko & Olszewski 1998a), and Asiatic species of *Kryptostoma* were known from Java and China (Szlachetko & Olszewski 1998b).

**Genus *Kryptostoma* (Summerh.) Geerinck emend. Szlach. sect. *Pseudocoeloglossum* Szlach. & Olsz.**

***Kryptostoma falciloba* (Summerh.) Szlach. & Olsz., comb. nova**

Basionym: *Habenaria falciloba* Summerh., Bot. Mus. Leafl. Harv. Univ. 14(9): 215. 1951.

DISTRIBUTION: Zaire, Zambia (Géerinck 1984, la Croix & Cribb 1995).



**Fig. 1.** — A and B (according to Seidenfaden 1977, redrawn): *Kryptostoma godefroyi* (Reichenb. f.) Olsz. & Szlach.; A: flower, B: gynostemium. — C: (according to Duthie 1906, redrawn): Flower of *Kryptostoma intermedia* (D. Don.) Olsz. & Szlach. — D and E: *Kryptostoma pectinata* (D. Don.) Olsz. & Szlach; D (according to King & Pantling 1898, redrawn): flower, E (according to Duthie 1906, redrawn): gynostemium. — F (according to la Croix & Cribb 1995, redrawn): Flower of *Renzorchis singularis* (Summerh.) Olsz. & Szlach.

**Genus *Kryptostoma* (Summerh.) Geerinck  
emend. Szlach. sect. *Multipartitae* (Kraenzl.)  
Szlach. & Olsz.**

***Kryptostoma cavatibrachia* (Summerh.) Olsz. &  
Szlach., comb. nova**

Basionym: *Habenaria cavatibrachia* Summerh., Bot. Mus. Leafl. Harv. Univ. 10(9): 273. 1942.

DISTRIBUTION: Ethiopia, Uganda, Kenya (Summerhayes 1968, Cufodontis 1972, Cribb & Thomas 1999).

***Kryptostoma davidi* (Franch.) Szlach. & Olsz.,  
comb. nova**

Basionym: *Habenaria davidi* Franch., Nouv. Arch. Mus. Hist. Nat., Paris, Sér. 2, 10: 86. 1887.

DISTRIBUTION: China (Guizhou, Hubei, Hunan, Sichuan, Yunnan), Tibet (Kraenzlin 1901, Tsi 1997, Chen *et al.* 1999).

***Kryptostoma godefroyi* (Reichenb. f.) Olsz. &  
Szlach., comb. nova**  
(Fig. 1A and B)

Basionym: *Habenaria godefroyi* Reichenb. f., Otia Bot. Hamburg. 2: 33. 1878.

DISTRIBUTION: Thailand, Cambodia, Vietnam (Seidenfaden 1977, 1992, Aver'yanov 1994).

***Kryptostoma intermedia* (D. Don.) Olsz. &  
Szlach., comb. nova**  
(Fig. 1C)

Basionym: *Habenaria intermedia* D. Don., Prodr. Fl. Nepal.: 24. 1825.

DISTRIBUTION: Himalaya: Pakistan, India, Nepal, Tibet (Duthie 1906, Pradhan 1976, Renz 1984, Deva & Naithani 1986).

***Kryptostoma pectinata* (D. Don.) Olsz. & Szlach.,  
comb. nova**  
(Fig. 1D and E)

Basionym: *Habenaria pectinata* D. Don., Prodr. Fl. Nepal.: 24. 1825.

DISTRIBUTION: Himalaya: Pakistan, India, Nepal, SE Tibet (King & Pantling 1898, Duthie 1906, Pradhan 1976, Renz 1984, Deva & Naithani 1986).

**Genus *Renzorchis* (Summerh.) Szlach. & Olsz.**

*Habenaria* Willd. sect. *Productae* Summerh., Kew Bull. 20(2): 167. 1966, *syn. nov.*

***Renzorchis singularis* (Summerh.) Olsz. &  
Szlach., comb. nova**  
(Fig. 1F)

Basionym: *Habenaria singularis* Summerh., Kew Bull. 20(2): 167–168. 1966.

DISTRIBUTION: Zimbabwe (la Croix & Cribb 1995).

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**REFERENCES**

- Aver'yanov, L. V. [Аверьянов, Л. В.] 1994: [*Guide to the orchids (Orchidaceae Juss.) of Vietnam*]. — Mir i Sem'ja, St. Petersburg. 432 pp. [In Russian].
- Chen S., Tsi, Z. & Luo, Y. 1999: *Native orchids of China in colour*. — Sci. Press, Beijing–New York. xvii + 416 pp.
- la Croix, I. & Cribb, P. J. 1995: Orchidaceae. 1. — In: Pope, G. V. (ed.), *Flora Zambeziaca* 11: 1–320. Flora Zambeziaca Managing Committee, London.
- Cufodontis, G. 1972: *Enumeratio Plantarum Aethiopiae Spermatophyta*. 2. — *Bull. Jard. Bot. Nat. Belg.* 42 (3, Suppl.): 653–1657.
- Deva, S. & Naithani, H. B. 1986: *The orchid flora of North West Himalaya*. — Print & Media Assoc., New Delhi. 459 pp.
- Duthie, J. F. 1906: The orchids of North-West Himalaya. — *Ann. Royal Bot. Garden Calcutta* 9(2): 1–211.
- Geerinck, D. 1982: Notes taxonomiques sur des Orchidacées d'Afrique centrale. VIII. — *Bull. Jard. Bot. Nat. Belg.* 52(1–2): 141–149.
- Geerinck, D. 1984: Orchidaceae. 1. — In: Bamps, P. (ed.), *Flore d'Afrique Centrale (Zaire-Rwanda-Burundi)*: 1–296. Jardin Bot. Natn. Belgique, Meise.
- King, G. & Pantling, R. 1898: Orchids of the Sikkim-Himalaya. — *Ann. Royal Bot. Garden Calcutta* 8(1): 1–342.
- Kraenzlin, F. 1901(reprint 1969): *Orchidacearum genera et species* 1. — J. Cramer, New York. 986 pp.
- Pradhan, U. C. 1976: *Indian orchids: guide to identifica-*

- tion and culture.* 1. — Bharat Lithogr. Co., Calcutta. viii + 188 pp.
- Renz, J. 1984: Orchidaceae. — In: Nasir, E. & Ali, S. I. (eds.), *Flora of Pakistan* 164: 1–63. PanGraphics Ltd., Islamabad.
- Seidenfaden, G. 1977: Orchid genera in Thailand V. — *Dansk Bot. Arkiv* 31: 1–149.
- Seidenfaden, G. 1992: The Orchids of Indochina. — *Opera Botanica* 114: 1–502.
- Summerhayes, V. S. 1968a: Orchidaceae. 1. — In: Milne-Redhead, E. & Polhill, M. (eds.), *Flora of tropical East Africa*: 1–236. Balkema, Rotterdam.
- Szlachetko, D. L. 1995: Systema Orchidalium. — *Fragm. Flor. Geobot.*, Suppl. 3: 1–152.
- Szlachetko, D. L. & Olszewski, T. S. 1998a: *Renzorchis* (Orchidaceae, Habenariinae), a new genus from Gabon. — *Adansonia*, sér. 3, 20(2): 323–326.
- Szlachetko, D. L. & Olszewski, T. S. 1998b: Orchidaceae 1. — In: Satabie, B. & Morat, P. (eds.), *Flore du Cameroun* 34(1): 1–320. MINREST, Yaoundé.
- Tsi, Z. 1997: A provisional checklist of the orchids of Guizhou province, China. — *Selbyana* 18(1): 11–30.