



Type designation and new combination for the alpine intergeneric hybrid ×*Pseudadenia micrantha* (Orchidinae, Orchidaceae)

LUCA ODDONE¹, LUCIANO BONGIORNI² & ANGELO CASABIANCA³

^{1,2,3} Gruppo Italiano per la Ricerca sulle Orchidee Spontanee (G.I.R.O.S.)

¹ Via Asti-Nizza, 86 - 14055 Costigliole d'Asti (AT) Italy; E-mail: luca.oddone@giros.it

² Loc. Paderna, 1 - 29010 Gazzola (PC) Italy; E-mail: lubon2@tiscali.it

³ Via Monte Rainero, 41 - 14100 Asti (AT) Italy; E-mail: casanca@libero.it

Abstract

A new combination, ×*Pseudadenia micrantha*, is proposed for the rare intergeneric hybrid between *Gymnadenia rhellicani* × *Pseudorchis albida*. Kerner did not designate a holotype and the 1976 typification of Hautzinger was not in accord with the ICN Code. An illustration by Kerner is designated here as the lectotype. Chorological and morphological notes detailing comparison with the parental species are provided.

Riassunto

Una nuova combinazione, ×*Pseudadenia micrantha*, viene proposta per il raro ibrido intergenerico tra *Gymnadenia rhellicani* × *Pseudorchis albida*. Kerner non istituì un olotipo e la tipificazione fatta da Hautzinger nel 1976 è contro il Codice ICN. Una illustrazione di Kerner viene designata come lectotipo. Vengono fornite anche note corologiche e morfologiche di confronto con le specie parentali.

Key words: Anton Joseph Kerner von Marilaun, Baron Franz von Hausmann, Rupert Huter, taxonomy

Introduction

Kerner (1865) and Sauter (1899) identified the Austrian Tyrol, as it was in the imperial epoch, as the ‘cradle’ of a novel hybrid orchid. Kerner (1865: 227) wrote that he had received a specimen from Baron Franz von Hausmann of Bolzano who, in turn, had received this specimen from a friend of his, the botanist Rupert Huter.

Kerner described this plant as a hybrid between *Nigritella angustifolia* Richard (1817) × *Gymnadenia albida* (L.) Richard (1817) now considered respectively as synonyms of *Gymnadenia rhellicani* (Teppner & E. Klein) Teppner & E. Klein (1998) × *Pseudorchis albida* (L.) Á. Löve & D. Löve (1969). In subsequent years, several authors have changed the name of this intergeneric hybrid, but no attention has been paid to the fact that Kerner did not designate holotype. Kerner based his description and accompanying illustrations on the single specimen he received from its discoverer, Rupert Huter on Mount Schleinitz (Austria: South Tyrol) (Fig. 1).

Caul. circa 150mm. alt. Fol. media 45–70mm. lg. 5–8mm. lt. Spica circa 35mm. lg. 12–14mm. lt. Bracteae 10–12mm. lg. 2mm. lt. Perig. lacin. ext. 4mm. lg. 1.5mm. lt. Perig. lacin. int. laterales 3.5mm. lg. 1.5mm. lt. Labellum 3.5–4mm. lg. 3.5mm. lt. Calcar 1.5mm. lg. 1mm. lt.

Icon. nost. Tb. 6. I. Planta integra 1:1, Tb. 5. XIII. Flos antice 2:1, XIV Flos a latere 2:1.

Bisher in einem einzigen Exemplare von Huter auf Bergwiesen der Schleinitz im tirolischen Pusterthale aufgefunden. Das Exemplar wurde von Huter an Baron Hausmann nach Botzen gesendet, welcher letzterer so freundlich war, mir selbes zur Ansicht mitzutheilen.

FIGURE 1. Extract from the description in German of *Nigritella micrantha* by Kerner (1865: 227).

References

- Ascherson, P. & Graebner, P. (1907) *Synopsis der mitteleuropäischen Flora* 3. Engelmann, Leipzig. 124 pp.
<http://dx.doi.org/10.5962/bhl.title.35810>
- Bongiorni, L. (1989) *Le orchidee spontanee del Piacentino*. Cariplo, Castelvetro. 143 pp.
- Bongiorni, L. (2004) *Le orchidee spontanee del Piacentino*. II ed., Grafitalia, Reggio Emilia. 163 pp.
- Camus, E.G., Bergon P., Camus A.A. (1908) *Monographie des orchidées de l'Europe de l'Afrique septentrionale, de l'Asie Mineure et des provinces russes transcaspennes*. J. Lechevalier, Paris. 552 pp.
- Crantz, H.J.N. (1769) *Stirpium Austriacarum*. Fasciculi VI, Editio Prima, Pars II. Ioannis Paulis Kraus, Wien.
- Foelsche, G. & Foelsche W. (1999) Une fleur pour la Chanousia – Die intragenerischen Hybriden der Gattung *Gymnadenia* R. Br. *Journal Europäischer Orchideen* 31(4): 795–836.
- Gerbaud, O. & Schmid W. (1999) *Les hybrides des genres Nigritella et/ou Pseudorchis*. Cahiers de la Société Française d'Orchidophile 5. S.F.O. & A.H.O. Bayern, Paris. 132 pp.
- Hayek, A. (1898) *Gymnadenia Abelii* nov. hybr. (*Gymnadenia rubra* × *odoratissima*). *Österreichische botanische Zeitschrift* 48: 423–424.
<http://dx.doi.org/10.1007/bf01794349>
- Hayek, A. (1956) *Flora von Steiermark, eine systematische Bearbeitung der im Herzogtum Steiermark wildwachsenden oder im Grossen gebauten Farn- und Blütenpflanzen nebst einer pflanzengeographischen Schilderung des Landes*. vol. 2(2). Akademische Druck- und Verlagsanstalt, Graz. 147 pp.
<http://dx.doi.org/10.5962/bhl.title.9984>
- Hautzinger, L. (1976) Nomenclatorische und systematische Beiträge zur Familie Orchidaceae. *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien* 115: 40–54.
- Hunt, P.F. (1971) Taxonomic and nomenclatural notes on European and British Orchids. *Orchid Review* 79: 138–142.
- Kerner, A. (1865) Die hybriden Orchideen der österreichischen Flora. *Verhandlungen der Kaiserlich-Königlichen Zoologisch-Botanischen Gesellschaft in Wien* 15: 203–236 (with 6 tables).
- Linnaeus, C. (1753) *Species plantarum*. Vol. 2. Laurentius Salvius, Stockholm. 639 pp.
<http://dx.doi.org/10.5962/bhl.title.669>
- Löve, A. (1969) IOPB chromosome number reports XXI. *Taxon* 18(3): 310–315.
- 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.E., Wiersema, J.H. & Turland, N.J. (eds) (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. Gantner Verlag, Ruggell.
- Richard, L.C.M. (1817) *De Orchideis Europaeis Annotationes, praesertim ad genera dilucidanda spectantes*. A. Belis, Paris. 152 pp.
<http://dx.doi.org/10.5962/bhl.title.15465>
- Sauter, F. (1899) Funde seltenerer Phanerogamen in Ost- und Mitteltirol. *Österreichische botanische Zeitschrift* 49: 351–369.
<http://dx.doi.org/10.1007/bf01672859>
- Schlechter, R. (1919) Mitteilungen über europäische und mediterrane Orchideen II. *Repertorium Specierum Novarum Regni Vegetabilis* 16: 257–292.
- Teppner, H. & Klein, E. (1990) *Nigritella rhellicani* spec. nova und *N. nigra* (L.) Rchb.f. s. str. (Orchidaceae - Orchideae). *Phyton* (Austria) 31(1): 5–26.
- Teppner, H. & Klein, E. (1998) Etiam atque etiam: *Nigritella* versus *Gymnadenia*: Neukombinationem und *Gymnadenia dolomitensis* spec. nova (Orchidaceae - Orchideae). *Phyton* (Austria) 38(1): 220–225.
- Thiers, B. (2011) *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: 17 December 2013).
- Wettstein, R. (1889) Untersuchungen über „*Nigritella angustifolia* Rich.“. *Berichte der Deutschen Botanischen Gesellschaft* 7: 306–317.