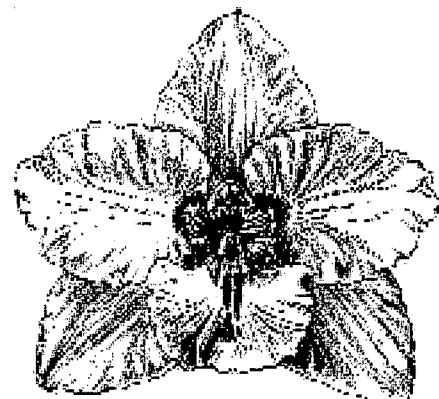


Odontoglossum Alliance Newsletter

Volume 5

November 2008

Odontoglossum Species Reference Edition

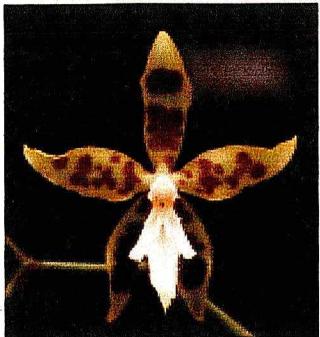


Special Edition Odontoglossum Species

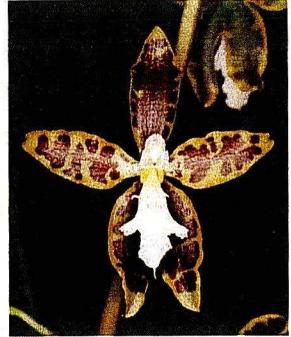
This is a Special Edition of the Odontoglossum Alliance Newsletter devoted to producing a reference edition of the odontoglossum species. Dr. Guido Deburghgraeve has an extensive collection of odontoglossum species and provided us with a DVD of the flowers of the species in his collection. This edition is devoted to showing these flowers. The pictures are augmented by (1) additional pictures of species from Steve Beckendorf's collection and (2) the complete list of odontoglossum species as produced by Kew Gardens. This list contains what they consider as the recognized names as well as the historical names applied to each species. It is planned that this edition will be repeated in the future with other genera in the Odontoglossum Alliance.

The pictures have (when available) both a facing photograph and a profile photograph. Where there are multiple photographs of the same species, this is done to show the variability within the species. There were more photographs available than we had space and money to show in this edition. A number of these species are marked with an X indicating a natural hybrid. Please see the explanation and definition of natural hybrids by Steve Beckendorf in the newsletter following the photographs.

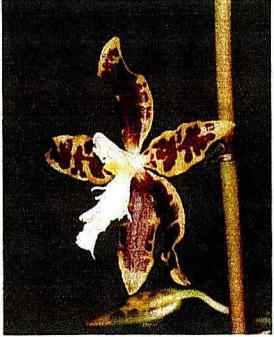
The Alliance is indebted to Dr. Guido Deburghgraeve for supplying the DVD of his flowers, to Stig Dalstrom for consulting on the material and to Dr. Steve Beckendorf for his consultation, flower pictures and explanation of the material contained in this issue.



Odm ariasii



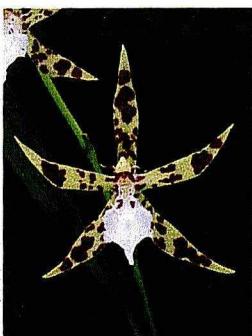
Odm ariasii



Odm armatum



Odm armatum



Odm aspidorhynum



Odm aurarium



Odm blandum

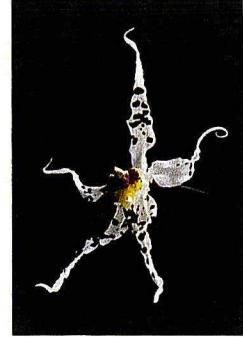


Odm blandum





Odm cirrhosum



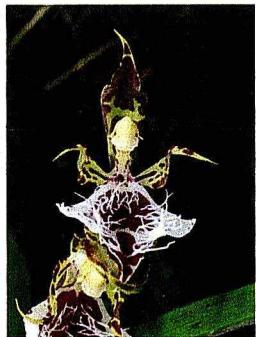
Odm cirrhosum



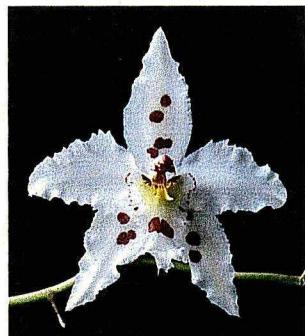
Odm constrictum



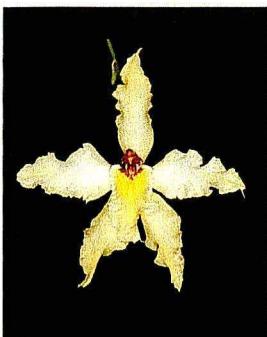
Odm crinitum



Odm crispum



Odm crispum



flavidum



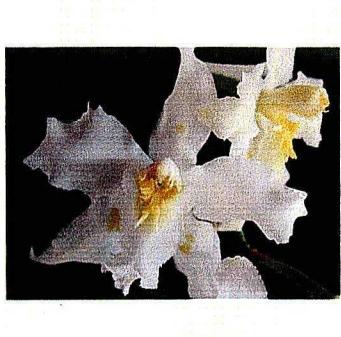
Odm crispum



lehmanii



maculatum



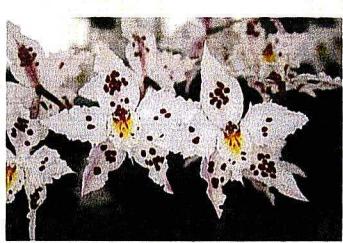
Odm crispum



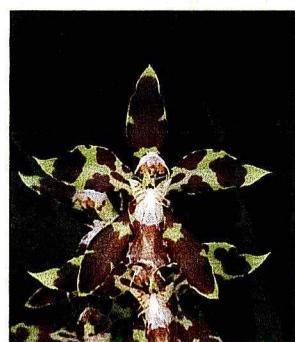
xanthotes



Odm. crispum



Odm. crispum



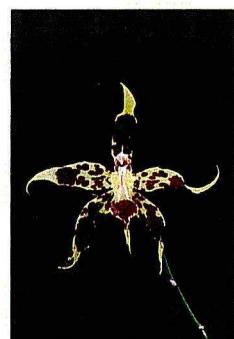
Odm. cristatellum



Odm. cristatellum



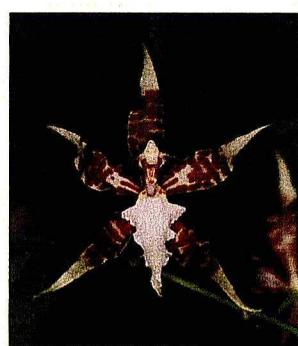
Odm. cristatum



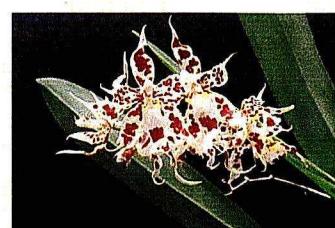
Odm. cristatum furcatum



Odm. crocidipterum ssp. crocidipterum



Odm. crocidipterum ssp. crocidipterum





Odm crocidipterum ssp. dormanianum



Odm cruentum



Odm dracoceps



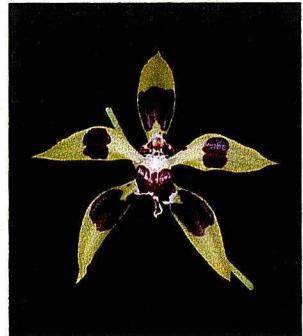
Odm epidendroides



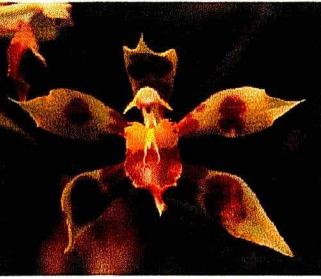
Odm epidendroides



Odm epidendroides



Odm gloriosum



Odm gloriosum

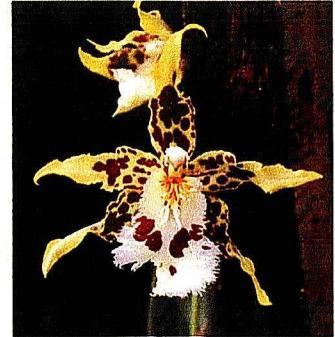




Odm gloriosum



Odm hallii



Odm hallii



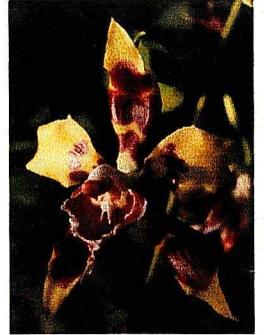
Odm harryanum



Odm juninense



Odm kegeljanii

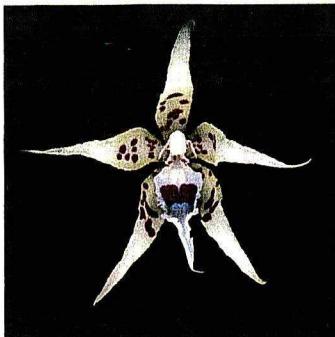


Odm lindleyanum



Odm lindleyanum





Odm lucianianum



Odm luteopurpureum



Odm luteopurpureum



Odm micklowii



Odm mirandum



Odm mirandum



Odm multistellare



Odm multistellare

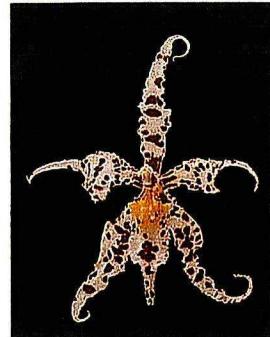




Odm multistellare



Odm naevium



Odm naevium



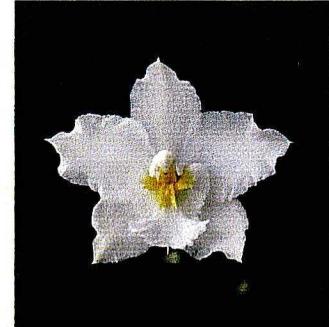
Odm nevadense



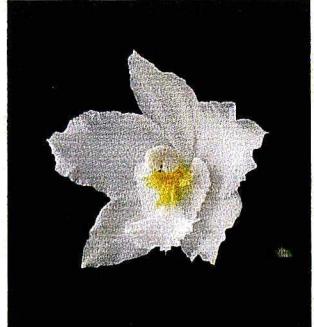
Odm nobile



Odm nobile



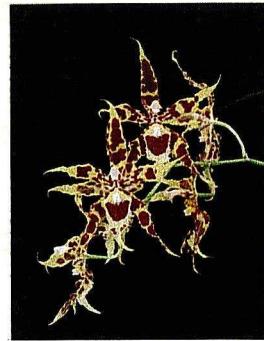
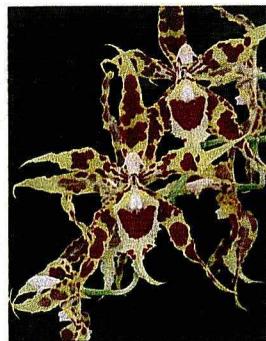
Odm nobile



Odm nobile



Odm odoratum



Odm odoratum



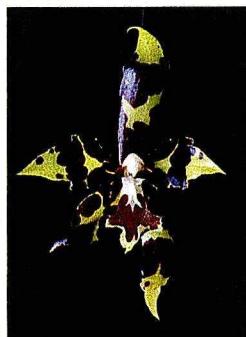
Odm portillae



Odm povedanum



Odm praenitans



Odm praestans

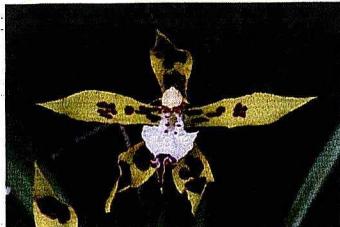


Odm praestans



Odm reversum

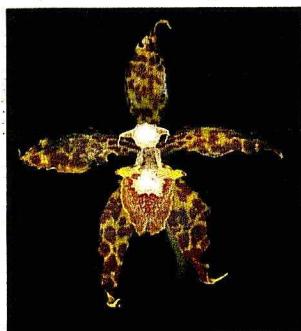




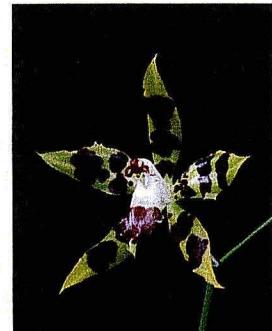
Odm rhychanthum



Odm sceptrum



Odm schillerianum



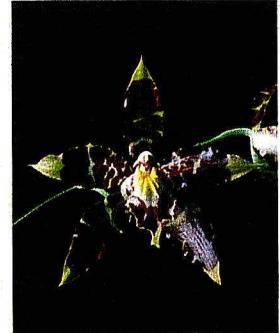
Odm spectatissimum



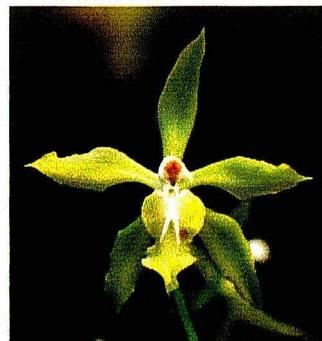
Odm spectatissimum



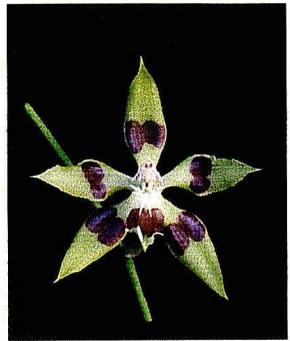
Odm spectatissimum



Odm subuligerum



Odm subuligerum

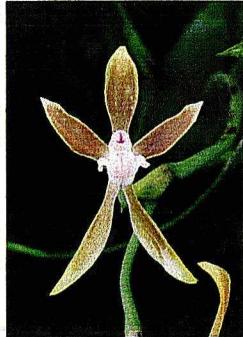




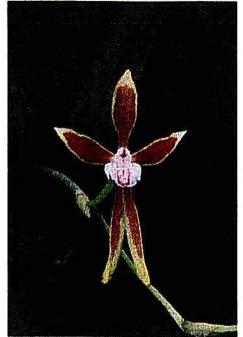
Odm tenuie



Odm tenuifolium



Odm tripudians



Odm velleum



Odm wallisii



Odm wyattianum

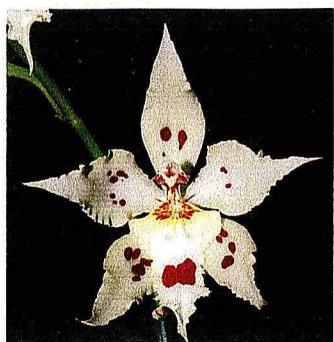


Odm wyattianum



Odm X andersonianum





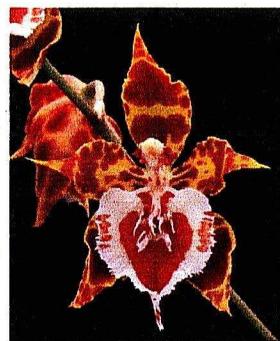
Odm X andersonianum



Odm X Elegans



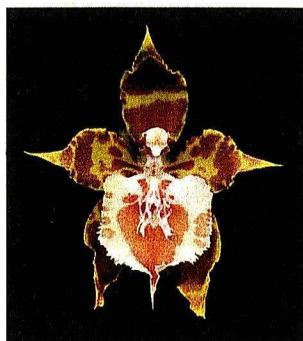
Odm X Harvengtense



Odm X hennisi



Odm X Horsmannii



Odm X leeanum



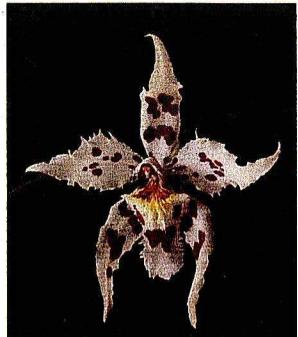
Odm X mulus



Odm X mulus



Odm X mulus



Odm X wilckeana

Natural Hybrids

By Steve Beckendorf

One of the fascinations of the odontoglossums is the amazing variety that is available in nature. This variation is most obvious in *Odontoglossum crispum*, which was discovered not only in many different shapes and sizes, but also in many different color patterns - white spotted or blotched with brown, red, or purple; yellow ground with red spots; all yellow or yellow and white flowers. When I was first getting interested in odonts I often heard that this extreme variation arose from a hybrid swarm, a kind of chaotic interbreeding among several species, as well as further breeding between the resulting hybrids, or backcrosses between the hybrids and the parental species. My recent trip to Colombia for the Medellin show clarified a bit better how all this hybridizing occurs.

First a word about nomenclature. Natural hybrids are designated by placing an x between the genus name and the specific name, e.g. *Odontoglossum x andersonianum*. I'm not sure, but I've always assumed that the x indicates that this plant arose as a cross between two species. Because this is a natural, not man-made, hybrid, the parents are not immediately known when an individual is found but can sometimes be deduced from the shape and color of the flowers and from the species that are known to grow nearby.

Rolfe, writing in 1893 in the first volume of the Orchid Review, suggested that *Odontoglossum* natural hybrids are actually quite rare. They are, however, readily noticed by collectors because they are distinctly different from the species plants that they are intermixed with. Thus they may appear to be over represented in collections. Even though these hybrids are rare, over evolutionary time they probably do allow transfer of genes between species that grow near each other.

For example, in one area of overlapping ranges, *crispum*, *luteopurpureum* and *gloriosum* are juxtaposed. All three possible natural hybrids occur and all are shown in the photos in this issue, *x andersonianum* (*crispum* x *gloriosum*), *x mulus* (*luteopurpureum* x *gloriosum*) and *x wilcockianum* (*crispum* x *luteopurpureum*). All three are quite variable as are all three of the parental species.

You may notice that three of the hybrids in Guido's photos have the specific part of the name capitalized. These are *Odm. x Elegans*, *x Harvengtense*, and *x Horsmanii*. These are not actually natural hybrids. Instead they are part of an ongoing project for Guido to test whether the presumed parents of some of the natural hybrids were actually correct. He made the crosses himself, grew the seedlings and flowered them to see if they looked like the corresponding natural hybrids. I think he plans one or more articles about this project so I'll leave that to him.

Culture

By Steve Beckendorf

I've always thought of odontoglossums as a cool or cold growing orchids and I grew all the species in the same greenhouse, the only one I had. However, recently Cindy Hill and I rented a greenhouse for her intermediate orchids, and I thought that maybe some of the odonts would do better there. This led me to reread the culture sections in Leonore Bockemuhl's indispensable monograph and realize that she clearly states the "cultivation of the species in a common greenhouse is not successful." Accordingly, I've moved several species from the lower cloud forest (1800-2200 m) into Cindy's greenhouse (I may have exceeded the available space). I won't list all of the species here (they're specified in Bockemuhl), but some of the more common ones are harryanum, wyattianum, and cirrhosum. They seem to be growing well in intermediate/cool-intermediate conditions, blooming more frequently and with more flowers. I would encourage others to try these species and their hybrids in conditions that are somewhat warmer than are typically used for crispum and its hybrids.

Kew Monocot List of *Odontoglossum* Species

The *Odontoglossum* Species list that follows is available from the Kew Gardens. It can be obtained from the following website: <http://apps.kew.org/wcsp/home> One extensive list is at the Kew Monocot Checklist site.

<http://apps.kew.org/wcsp/home.do>

Type in *odontoglossum* and it will return the list of accepted names (bold) and synonyms (regular) that follows. Notice that the natural hybrids are included with an x preceding the name. The list is pretty good but has a number of probably incorrect names (Dr. Guido Deburghgraeve, Stig Dal-stom and I would agree on most but not all of the mistakes); some of them recognized as synonyms by Bockemuhl and not yet reduced to synonymy by Govaerts, the curator of the list. These include *boddaertianum* and *hrubyianum*. A few others that were published in 2001 in the *Icones Orchidacearum Peruviarum* should actually be *cyrtochilums* but have not been formally transferred (*callacallense*, *contaypacchaense*, *gramazuense*, *llanachagaense*, *machupicchuense*, *pseudomelanthes*, *rubrocallosum*). Odm. *depauperatum* is on the Kew list but WAS formally transferred to *Cyrtochilum*. That leaves a few *Odontoglossums* that are on the Kew list but not on Dr. Guido's list: *albertii*, *alvarezii*, *astranthum*, *digitatum*, *hauensteinii*, *helgae*, *heterosepalum*, *portmannii*, *platynaris*, *povedanum*.

Steve Beckendorf

Names in **bold** indicate accepted names, plain list indicates non accepted names.

- Odontoglossum Kunth** in F.W.H.von Humboldt, A.J.A.Bonpland & C.S.Kunth, Nov. Gen. Sp. 1: 350 (1816).
- Odontoglossum x acuminatissimum** Rchb.f., Gard. Chron., n.s., 17: 256 (1882).
- Odontoglossum acuminatum Lindl., Fol. Orchid. 1: 9 (1852).
- Odontoglossum x adrianae** L.Linden, Semaine Hort. 1: 150 (1879).
- Odontoglossum alberti** P.Ortiz, Orquideologia 24: 5 (2005).
- Odontoglossum alboroseum Dalström, Lindleyana 9: 191 (1994).
- Odontoglossum alexandrae Bateman, Gard. Chron. 1864: 1083 (1864).
- Odontoglossum alexandrae var. cooksonii B.S.Williams & T.Moore, Orchid Album 3: t. 118 (1884).
- Odontoglossum alexandrae var. flaveolum (Rchb.f.) B.S.Williams & T.Moore, Orchid Album 1: t. 43 (1883).
- Odontoglossum alexandrae var. outramii B.S.Williams, Orchid Album 9: t. 403 (1891).
- Odontoglossum alexandrae var. stevensii B.S.Williams & T.Moore, Orchid Album 3: 127 (1884).
- Odontoglossum alexandrae var. trianaee Hook.f., Bot. Mag. 94: t. 5691 (1868).
- Odontoglossum alexandrae var. wilsonii B.S.Williams, Orchid Album 9: t. 387 (1891).
- Odontoglossum alvarezii** P.Ortiz, Orquideologia 22: 7 (2001).
- Odontoglossum x amabile auct., Gard. Chron. 1905(1): 197 (1905).
- Odontoglossum amphiglottii Rchb.f., Linnaea 41: 2 (1876).
- Odontoglossum anceps Lem., Ill. Hort. 3(Misc.): 45 (1856), nom. illeg.
- Odontoglossum anceps Klotzsch, Allg. Gartenzeitung 19: 250 (1851).
- Odontoglossum x andersonianum** Rchb.f., Gard. Chron. 1868: 599 (1868).
- Odontoglossum x andersonianum var. splendens B.S.Williams, Orchid Album 7: t. 292 (1888).
- Odontoglossum angustatum Lindl., Edwards's Bot. Reg. 23: t. 1992 (1837).
- Odontoglossum angustatum Lindl., Orchid. Linden.: 17 (1846), nom. illeg.
- Odontoglossum angustatum var. heterosepalum Rchb.f., Linnaea 28: 350 (1858).
- Odontoglossum anthoxanthum Rchb.f., Gard. Chron. 1869: 388 (1869).
- Odontoglossum apterum Lex. in P.de La Llave & J.M.de Lexarza, Nov. Veg. Descr. 2: 35 (1825).
- Odontoglossum apterum var. candidulum (Rchb.f.) Halb., Orquídea (Mexico City), n.s., 5: 318 (1976).
- Odontoglossum ariasii** Dalström, Selbyana 22: 137 (2001).
- Odontoglossum armatum** Rchb.f., Linnaea 41: 32 (1876).
- Odontoglossum arminii Rchb.f., Bonplandia (Hannover) 3: 66 (1855).
- Odontoglossum aspasia Rchb.f. in W.G.Walpers, Ann. Bot. Syst. 6: 851 (1864).
- Odontoglossum aspersum Rchb.f., Gard. Chron., n.s., 11: 266 (1879).
- Odontoglossum aspersum var. fulvidum John Fraser, Gard. World 11: 134 (1894).
- Odontoglossum aspidorhinum** F.Lehm., Gard. Chron., III, 18: 356 (1895).
- Odontoglossum astranthum** Linden & Rchb.f., Gard. Chron. 1867: 404 (1867).
- Odontoglossum aurarium (Rchb.f.) Garay, Taxon 19: 459 (1970).
- Odontoglossum aureum (Lindl.) Garay, Taxon 19: 458 (1970). 1

Odontoglossum aureum var. *stenochilum* (Lindl.) Garay, Taxon 19: 458 (1970).

***Odontoglossum auriculatum* Rolfe, Bull. Misc. Inform. Kew 1892: 140 (1892).**

Odontoglossum europurpureum Rchb.f., Linnaea 22: 848 (1850).

Odontoglossum axinopterum Rchb.f., Linnaea 41: 68 (1876).

Odontoglossum bachmannii I.Bock, Orchidee (Hamburg) 49: 265 (1998).

Odontoglossum × baphicanthum Rchb.f., Gard. Chron., n.s., 6: 260 (1876).

Odontoglossum barkeri (Hook.) Rchb.f. in W.G.Walpers, Ann. Bot. Syst. 6: 854 (1864).

Odontoglossum bellum Schltr., Repert. Spec. Nov. Regni Veg. Beih. 9: 108 (1921).

Odontoglossum beloglossum Rchb.f., Xenia Orchid. 2: 149 (1870).

Odontoglossum × bergmanii L.Linden, Lindenia 6: 95 (1890).

Odontoglossum biberianum (Rchb.f.) Rchb.f. in W.G.Walpers, Ann. Bot. Syst. 6: 851 (1864).

Odontoglossum bicolor Lindl., Edwards's Bot. Reg. 31(Misc.): 59 (1845).

Odontoglossum bictoniense (Bateman) Lindl., Edwards's Bot. Reg. 26: t. 66 (1840).

Odontoglossum bictoniense var. *splendens* Lem., Ill. Hort. 12: t. 449 (1865).

***Odontoglossum blandum* Rchb.f., Gard. Chron. 1870: 1342 (1870).**

Odontoglossum × bleichroederianum Linden & L.Linden, Lindenia 4: 69 (1888).

Odontoglossum × bleui (God.-Leb.) auct., Orchidophile (Argenteuil) 9: 63 (1889).

Odontoglossum bluntii Rchb.f., Bot. Zeitung (Berlin) 22: 415 (1864).

***Odontoglossum boddaertianum* Rchb.f., Gard. Chron. 1888(1): 296 (1888).**

Odontoglossum bogotense Schltr., Repert. Spec. Nov. Regni Veg. Beih. 27: 179 (1924).

Odontoglossum brachypterum Rchb.f., Linnaea 41: 26 (1876).

***Odontoglossum × brandtii* Kraenzl. & Wittm., Gartenflora 38: 378 (1889).**

Odontoglossum × brassia Rchb.f., Gard. Chron., n.s., 23: 501 (1885).

Odontoglossum brevifolium Lindl. in G.Bentham, Pl. Hartw.: 152 (1845).

Odontoglossum brevifolium var. *spathulatum* P.J.Cribb, Orchid Rev. 83: 349 (1975).

Odontoglossum brevifolium var. *weberbauerianum* (Kraenzl.) C.Schweinf., Bot. Mus. Leafl. 14: 64 (1949).

Odontoglossum brevilabium C.Schweinf., Amer. Orchid Soc. Bull. 18: 578 (1949).

Odontoglossum caeruleescens A.Rich. & Galeotti, Ann. Sci. Nat., Bot., III, 3: 27 (1845).

***Odontoglossum callacallaense* D.E.Benn. & Christenson, Icon. Orchid. Peruv.: t. 725 (2001).**

Odontoglossum calodryas Rchb.f., Linnaea 41: 3 (1876).

Odontoglossum × cambridgeanum auct., J. Hort. Pract. Gard. 16: 411 (1888).

Odontoglossum candelabrum Hook.f., Bot. Mag. 125: t. 7687 (1899), pro syn.

Odontoglossum candidulum (Rchb.f.) Halb., Orquídea (Mexico City), n.s., 8: 175 (1982).

Odontoglossum candidum Linden & André, Ill. Hort. 22: 58 (1875).

Odontoglossum cardiochilum (Lindl.) Kraenzl. in H.G.A.Engler (ed.), Pflanzenr., IV, 50(80): 288 (1922).

Odontoglossum cariniferum Rchb.f., Bot. Zeitung (Berlin) 10: 638 (1852).

Odontoglossum celsianum W.R.Gerard, Portef. Hort. 2: 141 (1848).

Odontoglossum cervantesii Lex. in P.de La Llave & J.M.de Lexarza, Nov. Veg. Descr. 2: 34 (1825).

Odontoglossum cervantesii var. *decorum* Rodigas, Ill. Hort. 36: 85 (1889).

Odontoglossum cervantesii var. *lilacinum* L.Linden & Rodigas, Lindenia 4: t. 172 (1888).

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Odontoglossum nevadense Rchb.f., Ill. Hort. 17: 243 (1870).

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- Odontoglossum praenitens* Rchb.f., Gard. Chron., n.s., 3: 524 (1875).**
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Editors Note:

The contribution of the DVD of Dr. Guido Deburghgraeve's flowers so nicely and professionally organized was the inspiration for putting out this newsletter of the Odontoglossum species. The DVD contains a number of genera. I would appreciate any comments you might have on this issue. In particular if you have photographs of odontoglossum species not shown in this issue, please send them to me at jemiller49@aol.com. I will plan on adding them as an addendum to a future issue.

This issue also created in my mind a series to be published in the future of all the genera of the odontoglossum alliance with pictures of the species. If this is successful, perhaps in the future we could put out a publication of all the genera showing pictures of the species in a single publication.

I would appreciate any comments you have on this issue, on what might be the plans for the future and what would be most useful to you.

John Miller-Editor

Odontoglossum Alliance Meeting

The 2009 Odontoglossum Alliance meeting will be held in conjunction with the Houston Orchid Society and American Orchid Society Members meeting and show 22-26 April 2009. The location is at the Houston Hilton Hotel North, web site address: www.hiltonhoustonhotel.com. The theme of the show is "Orchids, Texas Style".

Russ Vernon and Bob Burkey are taking the lead in preparation and execution of the Odontoglossum Alliance meeting which will be held commencing on Saturday morning with two lectures and a business meeting. Saturday evening will be a banquet and auction of donated items and plants for the benefit of the Alliance. The February 2009 newsletter will have more details of the meeting and show. Plan to attend. Details of the show may be obtained from the Houston Orchid Society web site. Type in your search for Houston Orchid Society and click on 'show'.