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Volume 9. Issue 3.

November 2009

ISSN 1474-4635

Bastard Beauties

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Many Haworthia enthusiasts are somewhat surprised when they visit haworthias in the field for the first time. Those who have visited haworthias in habitat will know that during dry periods the plants can be shrivelled beyond recognition and, even when turgid after rains, the plants are still often covered with dirt and have some scars from insect damage or trampling by animals. But even the occasional plant that is clean and unscarred in the wild is often not nearly as attractive as the plants we have in cultivation. This is, firstly, because the original stock plants from the wild were, in most cases, selected for their exceptional striking features and, secondly, because it was inevitable that the most attractive offspring of these plants would be the ones that became most propagated and treasured in cultivation. Therefore, we should never take the material we have in cultivation for granted as they are mostly far more attractive than the average plant encountered in the wild.

In fact, by selecting the most attractive seedlings and crossing them with each other, one can breed cultivars that are so far removed from the general plant in the wild that it can be hard to believe that they are the same species! Figs. 2 & 3 show the differences in selected *Haworthia retusa* seedlings compared with plants growing in the wild, fig. 1.

It is surprising to what extent certain characters can be bred by cross-pollinating selected plants. If one would select, for example, two plants of *H. pygmaea* var. *argenteo-maculosa* that both have rather dense white flecks and cross-pollinate them, the majority of the seedlings will have denser flecks than the average plant of that species. Often there will also be a few that will be even denser flecked than the two parent plants and, should one then cross them with each other when flowering, one may get even more extreme dense flecking, until someday you will get a plant with almost solid white flecked windows and which may actually qualify to get a cultivar name.

The same principle applies when one wants to create attractive hybrids between different species. If one should cross-pollinate just an average looking *H. splendens* with a plain looking *H. badia* then the result may not be spectacular, but if you choose the most attractively flecked and glossy *H. splendens*, fig. 4, with a *H. badia*, fig. 5, with strongly re-curved, glossy leaves, then most of the resulting seedlings will also have the dense flecking of *splendens* combined with the re-curved leaf-shape of *badia*.

My pollination technique. It was Mary Parisi who brought me one of the best gifts I ever received many years ago when she gave me a pair of 'Optivisor' magnifying glasses that clips over one's head. This allows both hands free to work while looking through the magnifying lenses.

I use fine watchmakers' forceps (tweezers) to transfer the pollen. My method involves partially tearing open each of the flowers to be pollinated. Most Haworthia flowers open very easily when one pulls the upper three lobes and lower three lobes apart and then one can easily see the stamens with pollen and the stigma hidden lower down below them. I simply take the tips of the pollenbearing stamens together in a bunch and transfer them to the stigma tip of an older flower on another plant. Care must be taken not to grab the stigma tip together with the stamen tips, but in most cases the stigma is situated well below the stamen tips. It is best to move pollen from younger flowers to the stigma tip of an older flower on the second plant. In most haworthias the stigma tip is curved upward (towards the upper perianth lobes) and one can slide the tweezers' tip with the bunch of pollen along the roof (perianth) and move it slightly down to press the pollen onto the stigma tip.

This is how I also do pollination between pure species in my greenhouse and you may now wonder just how do I make sure that I know in the end which fruits contain hybrid seeds and which ones do not?

My wife has an embroidery machine and as a result has a huge collection of coloured threads, which come in very handy. I would, for example, pollinate the flower of *H*. *badia* with that of *H*. *splendens* and then tie small pieces of the same red thread around each of the pollinated flowers. I may then pollinate another flower on the same *H*. *badia* plant with *H*. *mutica*, for example, and I will then use two pieces of green thread to mark the flowers. This way I can easily see which fruit resulted from the other plant's pollen.

Hand-pollinating one's plants in this way ensures very good fruit formation (as the stigma tips get really flooded with a whole lot of pollen!) and I found that the fruits and even the seeds of plants in cultivation are larger and more viable than wild collected seed.

A few favourites:

I have to admit that I find some of the most attractive haworthias in my collection to be hybrids. I think that the work of producing attractive Haworthia cultivars and hybrids has a huge potential and, due to the rarity of these plants in the wild, it should be encouraged so that more collectors start concentrating on growing and breeding beautiful cultivars instead of only concentrating on purist collections of plants with data.

This short article is meant to share with you a few of the best that I have been able to breed so far.

1. Haworthia 'Lombard Star'. Cultivar nova. Fig. 6.a,b Parentage. [(*H. mutica* x *H. mutica* 'White Window') x *H.* 'Ginsekai'] x *H. badia*.

Description. Rosette a compact, white star. Leaves recurved; large, retuse leaf ends are completely covered with dense, white flecking except for up to five longitudinal, dark, greenish-brown lines which are continuous with the upper lower leaf epidermis. Leaf tips end in a short spine. Plant illustrated is 7cm in diameter.

Comments. This hybrid is named in honour of George



- 1. Haworthia retusa in habitat.
- 2. Selected Haworthia retusa seedling.
- 3. Selected Haworthia retusa seedling.
 - 4. Haworthia splendens.
 - 5. Haworthia badia.









6a,b. *Haworthia* 'Lombard Star' 7a.b. *Haworthia* 'Black Knight' 8a,b. *Haworthia* 'Aluminum Star'



Lombard from Phoenix, Arizona. The reasons for naming it for him are very valid, as he was partly responsible for the creation of this hybrid. During 1996 George Lombard visited South Africa with the main purpose to see haworthias in the wild. Both Kobus Venter and I took George on trips to various habitats as we both had known him for a long time via correspondence and valued him as an exceptionally kind and dear friend. We also knew that he was a grower and propagator with exceptional skills.

At the end of the trip I took George to Kobus Venter's house and we used the opportunity to look at Kobus's collection. At that time Kobus had just obtained plants of *H. mutica* from Klippoort, a new locality found by Peter Bruyns to the south-east of Drew. These plants of H. *mutica* differed slightly from other forms of *H. mutica* by having very clear white facial lines, as well as a few white 'dusky dots' in the windows. Unfortunately only one of the plants was in flower and George and I regretted the fact that we would have to wait another year before Kobus might be able to pollinate these plants and share seed with us. Then George noticed that Kobus's plant of H. mutica 'White Widow' was also in flower. The leaf-propagated 'White Widow' plant of Kobus was the same clone as the exceptional plant at the Karoo Botanic Gardens with large milky clouds in the windows. This plant originated from Sanddrift, which is situated to the north-west of Drew.

George then asked Kobus whether he would mind if we pollinated the Klippoort plant with the flowering 'White Widow' from Sanddrift. Kobus agreed and promised to send the seed to us. George and I went ahead and pollinated the two plants. A few months later Kobus sent the seed to me as promised.

The resulting seedlings yielded many pleasant surprises. Unlike the 'White Widow' that develops the white cloudy windows only gradually during maturity, many of these seedlings already showed densely whiteflecked windows from an early age. A few had almost solid white windows and those I kept for further breeding.

Having a special liking for plants with dense whiteflecked windows, I could not wait to cross these white mutica seedlings with other white plants like *H. splendens*, and the very white forms of *H. wimii*, and the Japanese cultivar *H.* 'Ginsekai'.

The seedlings of the white *H. mutica* x *H.* 'Ginsekai' turned out very beautiful although they looked rather similar to some white *H. wimii* cultivars. I then decided that I needed to cross these seedlings with a longer and larger leaf plant. *H. badia* became a very good choice and the seedlings developed into beautiful, white, compact 'stars' with the attractive re-curved leaves of *H. badia*.

H. badia has always been George Lombard's favourite *Haworthia* and I then suddenly realized that the most appropriate name for these silver-white stars would be 'Lombard Star', particularly because the white *H. mutica* parents resulted directly from his clever pollination efforts.

2. Haworthia 'Black Knight'. Cultivar nova. Fig. 7a,b Parentage. *H. marumiana* var. *dimorpha* \bigcirc x *H. splendens* \bigcirc .

Description. Rosette compact. Leaves dark blackishgreen, pimples in more or less longitudinal rows in the short retuse leaf-ends dark blackish-green in the centre surrounded by a ring of light green, the leaf ends terminate in a spine. Marginal spines short. Diameter of plant illustrated is 7.5cm in .

Comments. In particularly the summer rainfall areas of South Africa, it is tricky to get certain summer flowering haworthias to complete the flowering and fruit development process. Some species like *Haworthia marumiana* (archeri) and its var. dimorpha, H. wittebergensis, H. maraisii, H. marxii and some members of H. mirabilis have rather thin flower peduncles that tend to develop wilting. The peduncle simply gets a soft spot and collapses. At first I thought it to be the result of a fungus due to summer heat and humidity, but I am told that it is a tiny insect that stings the peduncle, causing it to collapse.

This happened frequently while I was still living in Grahamstown and it was always a struggle to get flowers and fruit on my summer-flowering haworthias. During 1998 all but one of the peduncles on my *H. marumiana* var. *dimorpha* plants collapsed. I decided to pollinate the one which did not with pollen of *H. splendens*. The resulting seedlings were quite beautiful and most of them displayed the beautiful dark almost black-green colour of *dimorpha* and with the attractive glossy 'pimples' of splendens in the windows. These glossy pimples gave me the impression of scutes or rivets on the black-green armour of a fictional knight and the name 'Black Knight' felt quite appropriate.

3. *Haworthia* 'Aluminum Star' Cultivar nova. Figs. 8a,b.

Parentage. H. badia x H. splendens.

Description. Rosette of large re-curved, narrowly pointed leaves. The dark green of the retuse leaf-ends is largely obscured by aluminum-white (aluminium) raised spots running in slightly ridged, longitudinal rows. The leaf edges are tinged red. Plant illustrated is 8.5cm in diameter.

Comments. *H. badia* stands out as one of the haworthias with the most gracefully re-curved leaves, which are tightly packed into a neat and compact rosette. This character is a very desirable one to add to the 'recipe' of a hybrid, particularly if the other parent is an attractive densely marked *H. splendens* 'Dream Walk' (GM 452).

One of the best results I obtained from this pollination is the seedling I name 'Aluminum Star' as it has a peculiar metal-like colour reminding me of aluminium with a glossy pimpled surface in combination with the typical recurved leaves of *H. badia*.

I decided to use the American spelling of 'aluminum'.

4. Haworthia 'Chock Wonder' Cultivar nova. Fig. 9a,b Parentage. *H.* 'Chocolate' x [H. wimii Hayashi {=*H. emelyae* var. *major* (G.G. Smith) M.B. Bayer} x H. *badia*]. **Description.** Rosette small, clumping; leaf colour darkchocolate, windows glossy-white, raised spots (pimples) arranged in irregular longitudinal lines, a few spot continue into the lower upper leaf surface. The base of the leaf is broad, the retuse end tapers sharply to a point with a spine. Plant illustrated is 8cm in diameter.

Comments. It was George Lombard who gave me a plant of *Haworthia* 'Chocolate' years ago and it does indeed have a very striking, dark-chocolate colour. It clusters easily and as a result the rosettes stays small. But the unique colour made it a very good potential parent for







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hybrid production.

I have been using it as a parent in many hybrid attempts and several turned out quite good. The best in my opinion was the cross between H. 'Chocolate' and another hybrid which was the result of crossing a very nice white plant of H. wimii (emelyae var. major) with H. badia. This is the same combination that Bob Kent used to produce his series of 'Bev's Wonder' hybrids. So, one could say that H. 'Chockwonder' is a cross between H. 'Chocolate' and H. 'Bev's Wonder', (only if the clone used conformed to the description of 'Bev's Wonder - Ed) although my 'Bev's Wonder' was a 'home-made' one by using the same combination of parents The specific plant that I used has the white and toothed leaves of H. wimii, but the longer acuminate leaves of H. badia and does look somewhat similar to Kent's 'Bev's Wonder' called 'Imagine". H. 'Chock-wonder' has very attractive irregular chocolate island lines bordering glossy white windows decorated with pimples which almost look as if H. splendens may have been a parent!

5. Haworthia 'Pink Nebula'. Cultivar nova. Fig. 10a,b.

Parentage. *H*. 'Marx Red' x (*H*. 'White Window' x *H*. *mutica*).

Description. Rosette large; leaves re-curved, very bright pink, but in mid spring and mid autumn the pink looses some of its intensity, but never completely. Plant illustrated is 7.5cm in diameter.

Comments. This is the result of crossing a rather red cultivar of GM 447 *H. splendens* (given the cultivar name 'Marx Red' by Dr Hayashi) with the milky white *H. mutica* from Drew area (*H.* 'White Widow' x *H. mutica* from Klippoort).

'Pink Nebula' is very attractive during spring and fall when the pink colour shows up very bright. During mid winter and mid summer the pink colour seem to fade to some extent although it is never completely absent.

It is also a rather large plant and like 'Aluminum Star'. It also inherited to some extent the beautiful re-curved acuminate leaves of *H. badia*.

6. Haworthia 'Someno'. Cultivar nova. Fig. 11a-c.

Parentage. (*H. marginata* x *H. minima*) x *H. koelmaniorum* var. koelmaniorum.

Description. Young rosettes rather flat and open, with age the leaves become semi-erect; leaves dark green with slightly raised, white spots in longitudinal rows on both surfaces, occasionally amalgamating to form short lines in the centre of a leaf; leaf margins brown, cartilaginous, fig. 11a. The exposure to sun darkens the overall colour of a plant, fig. 11c. Plant illustrated is 8cm in diameter.

Comments. *H. koelmaniorum* (var. *koelmaniorum*) has a long flowering season and flowers prolifically throughout summer. As a result one has many opportunities to cross it with most other members of the *Hexangulares* and even with most of the *Robustipedunculares* although the latter efforts seldom produce results.

One successful case was the pollination of a hybrid between the small form of *H. marginata* and *H. minima* (both from Bredasdorp area) with *H. koelmaniorum*. The *H. marginata* x *H. minima* looks almost identical to *H. mortonii*. As young plants these 'Someno' hybrids had rather flat, open rosettes closer to *H. koelmaniorum*, but as they age they seem to develop more semi-erect leaves and more reminiscent of *H. marginata*.

The name 'Someno' is derived from 'south-meetsnorth' and refers to the fact that *H. koelmaniorum* is one of the northernmost species in South Africa while both the miniature *H. marginata* and *H. minima* are found very close to the southernmost tip of the country.

7. *Haworthia* 'Kent's Wonder'. Cultivar nova. Fig. 12a,b page 8.

Parentage. (*H. wimii* (= *H. emelyae* var. *major*) x *H. badia*) x (*H.* 'Ginsekai' x *H. splendens*).

Description. Rosette flattish; leaves reddish green, recurved lanceolate, margins white with fine white teeth; white windows cover the retuse leaf ends and are separated by longitudinal lines of epidermis reddishbrown in colour, the windows have many prominent raised white spots some of which end in short spines. Plant illustrated is 7cm in diameter.

Comments. I was one of the first people to receive plants of Bob Kent's well-known and beautiful 'Bev's Wonder' hybrids. In fact, at the time that Bob sent these to me he had not decided on a name and was initially considering calling it 'B-Bev'. Only later did he decide upon 'Bev's Wonder' and also divided them into A, B, C, D, etc. clones. By then I already had seedlings of the plants he sent me and therefore I could not quite link my self-produced offspring to his A,B,C,D etc. clones. 'Kent's Wonder' is a hybrid between one of the many 'Bev's Wonder' seedlings I have and a plant that is a cross between the Japanese 'Ginsekai' with *H. splendens*.

8. *Haworthia* 'Toff-O-Lux'. Cultivar nova. Fig. 13a,b. Parentage. *H. splendens* x *H.* 'Ginsekai'.

Description. Rosette compact; leaves brownish black; green retuse leaf-ends re-curved, with longitudinal whitish lines with raised white spots some of which terminate in a small spine; short marginal spines white, backward pointing. Plant illustrated is 7.5cm in diameter.

Comments. This is a hybrid between a very white plant of *H. splendens*, GM 452, and the Japanese *H*. 'Ginsekai'. It may be a good parent to use for further hybrids as it would be very beautiful if one can get the caramel-brown lines more prominent and bordered by bold, cloudy-white lines.

It is named after a brand of caramel toffee that is no longer in production as far as I know, but which consumed a large portion of my pocket money (and teeth) as a young child.

9. Haworthia 'Tripple B'. Cultivar nova. Fig. 14a,b.

Parentage. (*H. wimii* [*H. emelyae* var. *major*] x *H. badia*) x (*H. badia* x *H.* 'Ginsekai').

Description. Rosette large, compact flattish; leaves dark green with reddish margins and small backward pointing teeth; the windows in the retuse leaf ends are white and have many raised, white scattered spots, longitudinal lines of dark green can be seen between the windows. Plant illustrated is 9.5cm in diameter.

Comments. This plant is the result of crossing one of my 'home-made Bev's Wonder's' mentioned above with a cross between *H. badia* and 'Ginsekai, fig. 15. Most of its siblings look almost like pure *H. badia* for some reason, but this one stood out from an early age as it was larger and considerably rougher than the others.



12a,b. *Haworthia* 'Kent's Wonder' 13a,b. *Haworthia* 'Toff-O-Lux'







14a,b. *Haworthia* 'Tripple B'



It almost looks as if it has some *H. splendens* blood and I have wondered whether I have not made a mistake or a seed from another hybrid batch landed amongst these. Yet, none of the other hybrid batches have similar plants although some of the 'Lombard Star's look a bit like this although not quite as rough. Nevertheless, it is quite a nice hybrid and its large size is a very desirable feature. Triple B stands for 'Big Beautiful Bastard'.

10. *Haworthia* 'Glass Emblem'. Cultivar nova. Fig. 16a,b.

Parentage. H. pygmaea 'Crystallina' x H. splendens.

Description. Rosette compact; dark-green leaves short, rough, retuse leaf-ends with up to seven white lines converging, but not connecting, near the rounded leaf tip and covered in glossy, crystalline projections which appear glassy and transparent. Plant illustrate is 7cm diam. **Comments.** Over the years I have selected the most crystalline plants from batches of seedlings of JDV 84-15 *H. pygmaea* from Great Brak River. The seedlings originally received from Kobus Venter were already nicely 'crystalline', but by seed propagation and selection some results far exceeded the original parents.

By crossing one of the roughest *H. pygmaea* 'Crystallina' with a very white plant of *H. splendens* GM 452 some rather nice seedlings resulted, the best of which was 'Glass Emblem'. It has the same rough sugar-coated leaf-tops as *H. pygmaea* 'crystallina' but with the glossiness of *H. splendens* that gives it a glassy transparency.

11. Haworthia 'Protorose' Cultivar nova. Fig. 17.a,b.

Parentage. *H. pygmaea* 'Crystallina' x *H.* 'Ginsekai'. **Description.** Rosettes small; leaves blackish-green, the white windows cover the retuse leaf ends except for blackish-green, longitudinal lines (circ. 3 to 8), the windows are studded with fine, whitish tubercles some of which have terminal spines in longitudinal rows. Plant illustrated is 7.5cm diameter.

Comments. This is the result of crossing one of the best *H. pygmaea* 'Crystallina' JDV 84-15 with *H.* 'Ginsekai'. The plant is small and reminds me a bit of *H. wimii* although the rough texture on the upper leaves is very fine and delicate.

12. *Haworthia* 'Gothlet'. Cultivar nova. Fig. 18a,b. Parentage. *H. pulchella* x *H.* 'Bev's Wonder'

Description. Rosette small; leaves narrowly attenuate, dark-green; longitudinal rows of white teeth along the leaf edges and keel and on the upper surface converging towards, but not linking at the leaf tip. Plant illustrated is 6cm diameter.

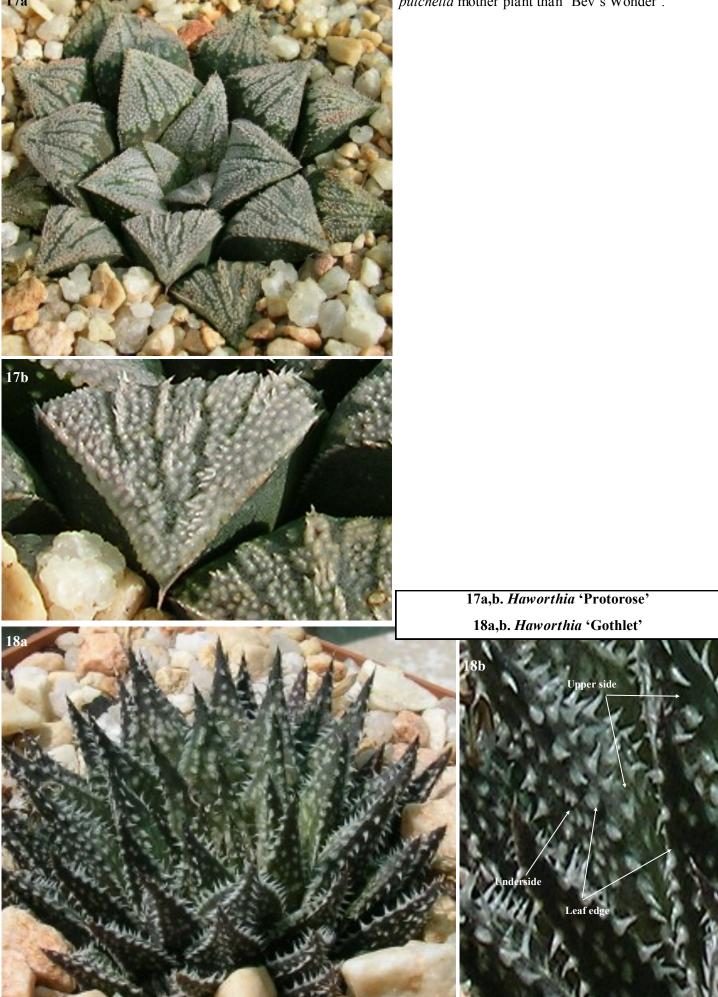
Comments. This dark little rosette covered with white teeth is the result of crossing *H. pulchella* from Die Draai, north-east of Touwsrivier with *H.* 'Bev's Wonder'. All the seedlings are almost identical and the tray of seedlings looks like a uniform batch of a new species! The plants are obviously much closer to the *H.*

15. *Haworthia* 'Ginsekai' x *Haworthia badia*

16a,b. Haworthia 'Glass Emblem'



pulchella mother plant than 'Bev's Wonder'.



13. *Haworthia mutica* 'Drew White' Cultivar nova. Figs. 19a,b.

Parentage. *Haworthia mutica* (from Klippoort) x *Haworthia* 'White Widow'.

Description. Rosette medium size; leaves recurved, slightly acuminate, brown-green; upper windowed areas densely covered in white dusky flecks, becoming almost solid in the central leaf area. The retuse ends have five to seven white longitudinal lines, some of which have a few opaque brown-green islands inside. Plant illustrated is 7.5cm diameter.

Comments. The *Haworthia mutica* used for the cross came from Klippoort; the *Haworthia* 'White Widow' is a selected clone of *Haworthia mutica* from Sandrift which develops a white, milky cloud in the centre of the leaf with maturity.

14. *Haworthia* 'Sago Jelly'. Cultivar nova. Figs. 20a,b. Parentage. *Haworthia bayeri* x *Haworthia mutica*.

Description. Rosette flat and compact, retuse leaf ends somewhat rounded, flat to slightly concave, spotted white; circa 4-6 longitudinal white lines the ends of which curve outwards generally, but inwards occasionally. Plant illustrated is 7.6cm in diameter.

Comments. Superficially similar to *Haworthia mutica* 'Drew White' but differing significantly in the detail.

15. *Haworthia* 'Dream Walk'. Cultivar nova. Figs. 21.a,b



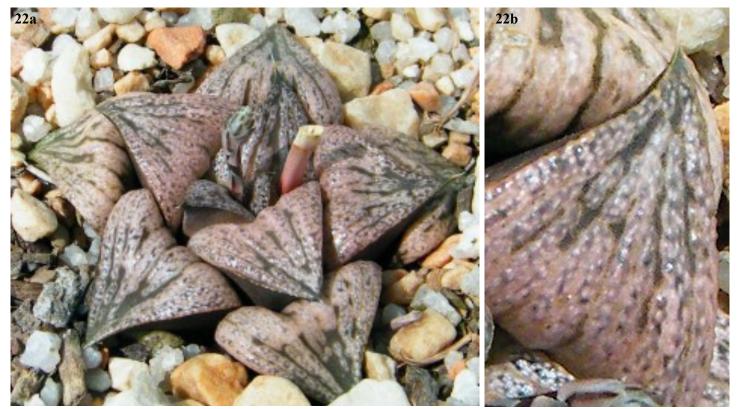


Parentage. Haworthia bayeri x Haworthia mutica.

Description. Rosette medium size; leaves recurved, chocolate brown, windowed retuse leaf-ends brownish-green-grey with soft-edged, white, longitudinal lines that curve outward towards leaf-tips, tessalately connected. Plant illustrated is 8cm in diameter.

Comments. Although the parentage is the same as for *Haworthia* 'Sago Jelly' the two clones are quite different.





16 Haworthia splendens 'Toffee'. Cultivar nova. Fig. 22a,b.

Parentage. A selected clone of the species.

Description. Rosette compact, medium size and flattened; leaves triangular ending in sharp spine, chocolate brown, retuse leaf ends densely flecked with pale, purplish white flecks, interrupted by several

prominent but irregularly- broken, opaque chocolatebrown longitudinal lines that blend into another towards the leaf-tips. Plant illustrated is 8cm in diameter.

Comments. *Haworthia splendens* has attractive makings which vary from clone to clone. This one was selected for cultivar status because of its outstanding beauty.

Cultivar Publication Dates Cultivar Publication Dates Maintee publication date for all new cultivars published in Alsterworthia International Volume 9 Issue 2 is June 14th, 2009, the date on which the first distribution of journals took place. Proof of postage is held. The publication date for all new cultivars published in Alsterworthia International Volume 9, Issue 3 will be announced in the March 2010 Alsterworthia International. It will be the date on which the first journals are posted The descriptions for all new cultivars published by Alsterworthia International are sent to the Herbarium, RHS Garden Wisley, Woking, Surrey, GU23 6BQ, UK for recording as the *Standards* for these cultivars Dubter Standards for these cultivars Dubter Standards for these cultivars

Two membership renewal forms are included with this issue. One for your own use and the other to pass on to a anyone or any organisation interested in the genera we cover. Many thanks for your help and support.

Molecular phylogenetic studies in Haworthia Duval (Asphodelaceae)

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Introduction

The southern African centred succulent genus Haworthia comprises c. 61 species (Bayer, 1999). Haworthia is placed in the subfamily Alooideae (Asphodelaceae; Asparagales). Bayer (1999) divided the genus into three (Haworthia, Hexangularis subgenera and Robustipedunculares) based primarily on floral characters. The genus has a complicated taxonomy with numerous closely related species. A complex alpha taxonomy and considerable amateur interest in *Haworthia* has resulted in a plethora of names at species-level (and lower ranks) and conflicting species limits. Consequently, species limits and relationships are contentious and poorly understood. Molecular studies by Treutlein *et al.* (2003a, 2003b) have shown that Haworthia sensu lato is not monophyletic but with limited sampling. Here we report preliminary findings of a molecular phylogenetic study based on nrDNA (ITS1) and cpDNA (trnL-F spacer) sequence data of Haworthia.

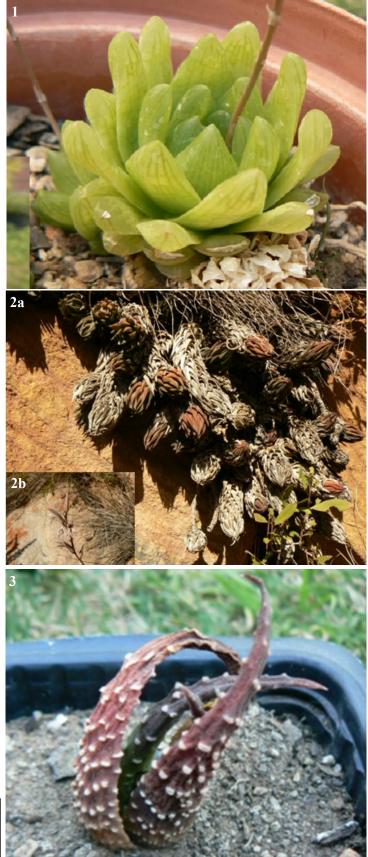
Material & Methods

DNA extraction, amplification & sequencing: Total genomic DNA was extracted using the CTAB procedure of Doyle & Doyle (1987). ITS1 was amplified with primers 'ITS1' (White et al., 1990) and 'Chromo 5.8SR' (Barker et al., 2005). The trnL-F spacer was amplified with primers 'E' and 'F' (Taberlet et al., 1991). Sequencing was done with primers used for amplification. Sequence editing & alignment: Sequences were edited Additional and aligned manually. Asphodelaceae sequences from GenBank were retrieved and aligned manually in the respective data sets. Phylogenetic analyses: The nrDNA and cpDNA data were analyzed separately. Maximum Parsimony (MP) analyses were conducted with PAUP* version 4.0b10 (Swofford, 2002). Bayesian Inference (BI) was performed using MrBayes version 3.1.1 (Huelsenbeck & Ronquist, 2001) with the model of sequence evolution identified by the Akaike Information Criterion implemented in MrModel version 2.2. (Nylander, Uppsala University, Sweden). Bulbine and Kniphofia (Asphodeloideae) were used as outgroups.

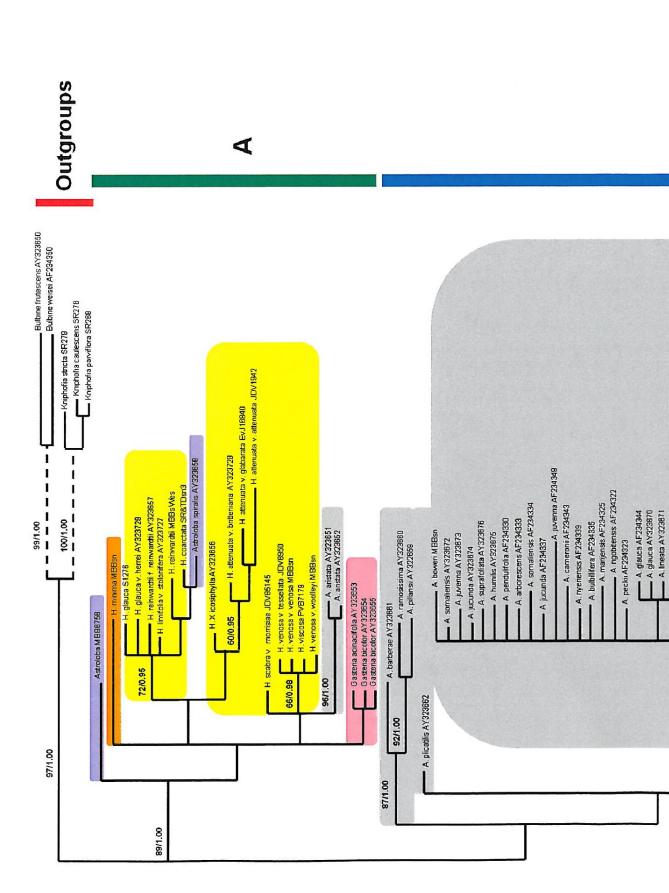
Discussion

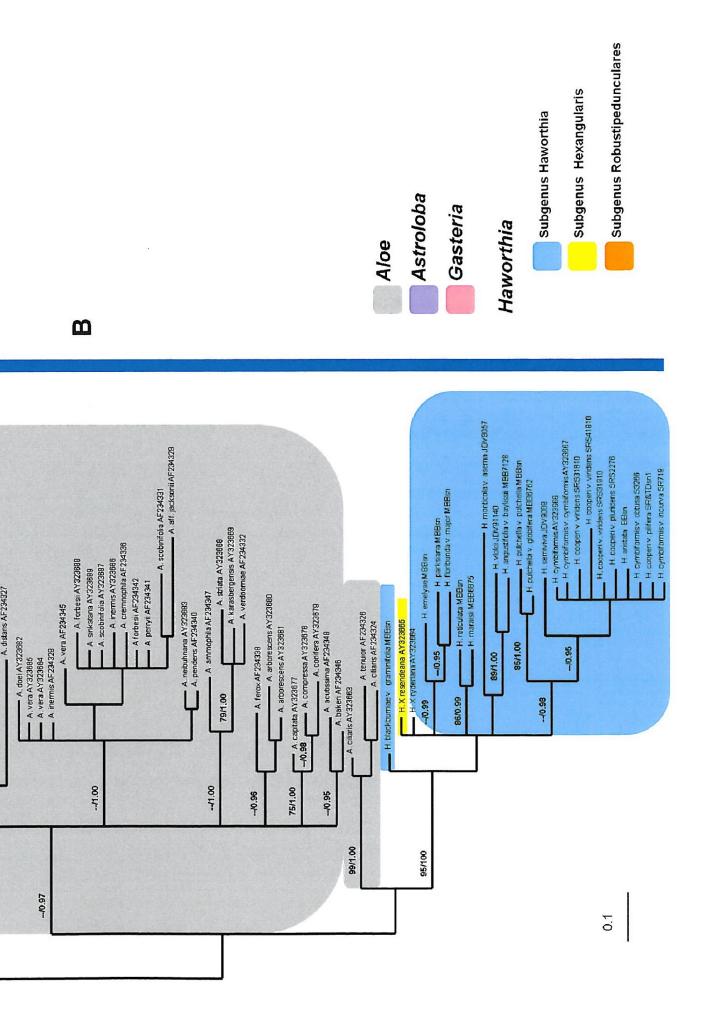
Using ITS1 data, Treutlein *et al.* (2003b) showed that subgenera Haworthia and Hexangularis formed monophyletic lineages but *Haworthia sensu lato* is not monophyletic, and with both lineages nested within *Aloe*. Our results for ITS1 (Fig. 4) show that with a expanded data set for *Haworthia* and *Aloe*, most samples of subgenus Hexangularis and the single sample of subgenus Robustipedunculares forms a well supported lineage with

Fig. 1. *H. cymbiformis*. Subgenus Haworthia.Fig. 2. *H. glauca*. Subgenus Hexangularis.Fig. 3. *H. pumila*. Subgenus Robustipedunculares.









Astroloba, Aloe aristata and Gasteria (Clade A, Fig. 4). Subgenus Hexangularis is non-monophyletic. Monophyly for subgenus Robustipedunculares cannot be assess as we have a single sequence. Most *Aloe* samples, subgenus Haworthia samples and a single *Haworthia* hybrid (*H. X resendeana*, AY323665; subgenus Hexangularis) forms a lineage with no support (Clade B, Fig. 4).

Using chloroplast data (rbcL & matK), Treutlein et al. (2003b) found that subgenus Haworthia is monophyletic but basal, while subgenus Hexangularis was polyphyletic and nested within *A loe* along with *Gasteria* and *A stroloba*. Our results for the *trnL-F* spacer revealed a polytomy comprising most samples of subgenus Hexangularis (i.e. non-monophyletic), Gasteria and Poellnitzia (Fig. 5). H. attenuata samples (subgenus Hexangularis) formed a well supported lineage (Clade 1, Fig. 5). H. coarctata and H. reinwardtii (subgenus Hexangularis) formed an unsupported lineage with H. kingiana (subgenus Robustipedunculares) (Clade 3, Fig. 5). Aloe samples formed a single lineage with good PP support (Clade 4, Fig. 5). Clade 2 (Fig. 5) which has no support contains a well supported lineage with Astroloba samples (Clade 2b, Fig. 5), a single *Poellitnizia* sample, a single *H. marginata* sample (subgenus Robustipedunculares), and a lineage

which contains all subgenus Haworthia samples (Clade 2a, Fig. 5) with a single *H. kingiana* sample (subgenus Robustipedunculares) nested within.

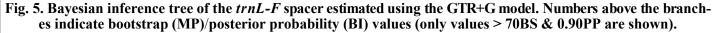
The results above indicate that *Haworthia sensu lato* is non-monophyletic and that the presently recognized Alooideae genera cannot be studied in isolation. Nonmonophyly of Alooideae could be due to hybridization and/or incomplete lineage sorting. Many genera of Alooideae form interspecific and intergeneric hybrids. We hypothesize that there has been a recent radiation of the Alooideae in southern Africa, which may also account for the high diversity and complex taxonomy in the region.

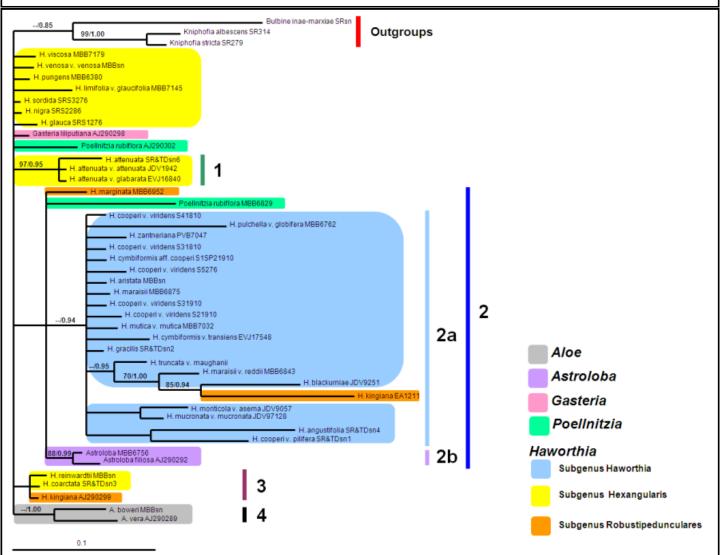
References: 1. Bayer, B. 1999. *Haworthia* Revisited, a revision of the genus. Umdaus Press, Hatfield.

2. Barker, N.P. *et al.* **2005.** Plant phylogeography based on nrDNA ITS sequence data: two examples from the Asteraceae. In: Plant species level systematics: new perspectives on pattern and process, eds. Bakker, F.T. *et al.*, pp.217-244. ARG Gantner Verlag, Ruggell.

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DNA. *Plant Molecular Biology* 17: 1105-1109.
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Acknowledgements: The National Research Foundation (RSA), Nelson Mandela Metropolitan University & Rhodes University are thanked for supporting this study. Sheilam Nursery & Selecta Succulenta are thanked for providing plant material. Ian & Sandy Richie are thanked for permission & help during collecting on Kaboega Farm. Tony Dold is thanked for field assistance. Gerhard Marx is thanked for use of digital images.

Japanese Cultivar Names.

The Japanese Haworthia Society was formed a year before Alsterworthia International and attained its 10th anniversary this year. We extend our hearty congratulations to them for a decade of informative and well illustrated articles and for a comprehensive introduction to Japanese cultivars.

The names used for cultivars in Japan have been very much influenced by Japanese traditions and have proved entirely satisfactory for local use. As the International Code of the Nomenclature for Cultivated Plants aims to standardise cultivar names for world wide use, Dr. Hayashi, who is not only the editor of Haworthia Study but also one of the foremost creators of Haworthia cultivars, has, together with his colleagues, reviewed Japanese cultivar names published in Haworthia Study and just published a list of names adjusted as necessary for compliance with the ICNCP. This is an excellent example of what can be done by people active in the creation of cultivars to ensure compliance with the Code.

This comprehensive list is also published in the following pages so that all who are interested in cultivars can have up-to-date information for many of the Japanese Haworthia cultivars.

Table 1. *Haworthia* cultivars published in Haworthia Study No. 1~20. ハオルシア研究(1~20号)掲載品種リスト(アルファベット順) (Bold faced: correct name. 太字=正名, Bold red: corrected/new name in this list. 赤太字=このリストで訂正、新命名された正名,

Bold blue: new name published in this issue. 青太字=本号(20号)で新たに発表された正名, Light faced: invalid/temporary name & miss-transcription. 細字=無効名等) Table 1-A-1 Soft leaf group (except Trupcata group) 軟葉グループ(玉万類を除く)

		t Truncata group				V	
Cultivar/Group name	品種名/グループ		Breeder/Author			Other issues	Comments (meaning)
'Abōkyū'	阿房宮	comptoniana hyb.	Hayashi	2001	6: 10 (4)	14: 15 (6)	(An extra large palace of Qin)
'Akagitsune'	赤狐 アルビヌスタ	tricolor	Tsukahara	2004	11: 16 (2) 11: 7 (4)		(Red fox) Dairi Group
Albinusta' Anitra'	7=1-5	albispina-venusta splendens hyb.	Marx Yoshida	2004	18: 3 (5)		Temporary name of 'Hedgehog' 仮名
'Aogitsune'	青狐	tricolor	Tsukahara	2004	11: 16 (3)		(Blue fox) Dairi Group
Aoi Yõsei	青い妖精	bella	Hayashi	2006	16: 14 (5)		(Blue fairy)
Arowana'	アロワナ	laeta hyb.	Hayashi	2006	16: 1		コレクタ系最高峰 Jupiter Group
Atlantis'	アトランティス	cooperi-wimii ?	Bob Kent	2004	11:5(1)		
Bacchus'	バッカス	badia	Bob Kent	2004	11: 5 (5)		野生株 A field plant.
Ballerina'	バレリーナ	vitris	Hayashi	2009	20: 6	8: 2 (3), 19: 8 (3)	重複のため「シャンデリア」からここで改名。
Benitei'	紅亭	retusa hyb.	Banno	2006	15: 2 (1)	17: 8 (2)	(Red house)
Benizakura'	紅桜	sucinea	Ohkubo	2004	11:6 (5)		
Beukmanii Nishiki'	ベークマニー錦	beukmanii	Ohkuwa	2003	9: 4 (5)		Temporary name. invalid 無効名
Beverly's Wonder Gr.	ビバリーワンダー	splendens hyb.	Bob Kent	2005	13:8 (1~6)		グループ名
Black Mask'	ブラックマスク	springbokvl. hyb.	Tsuruoka	2005	14: 15 (5)		
Black Pearl'	ブラックパール	springbokvl. hyb.	Oikawa	2009	20: 6	6: 7	新命名。
Black picta'	大黒ピクタ	tricolor hyb.	Hagiwara	2002	8: 5 (4)		Miss-translation of 'O Kuro Pikuta' 英文表記誤り
Black Splendens'	ブラックスプレンデンス	splendens hyb.	Ohkuwa	2005	13: 3 (1)	15: 10	紫宸殿の旧名。Old name of 'Shishinden'. Invalid.
Blue Dolphin Group	ブルードルフィン	retusa hyb.	Ohkubo	2007	17:9(2)		Translation of 'Assistance'
Blue Fox' Blue Haze'	青狐	tricolor	Tsukahara	2004	11: 16 (3)	17: 3 (1)	Translation of 'Aogitsune'
Blue Haze Bob's Red'	ブルーヘイズ ボブズレッド	comptoniana hyb. splendens	Ohkuwa Bob Kent	2001	6: 15 (2) 17: 6 (7)	11: 4 (2)	H. comptoniana x Picta series マルクスレッドと並ぶ第3の産地の銘品。
Byakko'	白虎	wimii hyb.	Matsuno	2007	17: 0 (7)	.1. 7 (6/	(White Tiger) 白虎隊の最優個体
Byakkotai Group	白虎隊	wimii hyb.	Matsuno	2009	20: 12 (5)		(White Tiger Party) 白虎、ポラリスなど白夜城実生
Carmen'	カルメン	joubertii	Ohkubo	2008	19: 8 (2)		
Cascade Group	カスケード	retusa hyb.	Ohkubo	2007	17:9(1)		
Cassiopeia'	カシオペア	comptoniana hyb.	Horikawa	2007	18: 2 (3)		'Karakusa' hyb.
Chandelier'	シャンデリア	vitris	Hayashi	2008	19:8 (3)		重複名。「バレリーナ」に改名。Later homonym.
Chō-ami'	超網	laeta	Hayashi	2000	4: 11 (5)		(Super reticular) 特網実生 Tokuami Group
Chocolate'	チョコレート	tricolor	Nishi	2000	3: 14 (2)		Old name of 'Orfeu' (Homonym)「オルフェ」と改名。
Collasony Nishiki'	コラソニー錦	Obu Dan	Hayashi	2009	20: 21 (6)		(mini Ollasonii variegated) "オブツーサ錦"を新命
Commonju'	子紋寿	retusa hyb.		2007	18: 2 (6)		Changed to 'Kamen Butökai' by the breeder.
Crystal Eye'	クリスタルアイ	bayeri hyb.?	Mr. F	2006	15: 3 (2)		
D-1'	(小林) D-1	splendens		2007	17: 4 (3)		紫式部。Temporary name of 'Murasaki Shikibu'
da Vinci Group	ダビンチ	Pikuta Gr.	Ohkubo	2009	20: 17 (9)		マーブルx白雪姫の実生グループ
Daiginjō'	大銀城	wimii hyb.	Hayashi	2001	5: 3 (6)		(Big silver castle)
Daikoku Pikuta'	大黒ピクタ	tricolor hyb.	Hagiwara	2002	8: 5 (4)	0.14/1)	(Large black Pikuta) "Black picta" is translation.
Daikokuten'	大黒天	laeta ?	Hayashi	1999	2: 3 (8)	3: 14 (1)	(God of wealth)
Dairi'	大理 大雪渓	tricolor hyb.	Tsukahara	2003 2009	10: 16 (1) 20: 6	17: 3 (4) 6: 4 (5)	(Marble) "Dali" is translation. Dairi Group. 育成者命名。Named here. (Large snow valley)
Daisekkei' Daisetsu'	大雪灰	<i>picta</i> Galaxy Group	Kawahigashi Hayashi	2009	10: 3 (3)	0, 4 (5)	(A mountain name of Japan)
Daruma Star'	ダルマスター	imperialis hyb.	Tsuruoka	2003	20: 21 (3)		"Daruma" is a famous priest.
Day Dream'	デイドリーム	ciliata	Hayashi	2005	16: 14 (2)		Daruma is a famous priesc,
Diana'	ダイアナ	mutica-splendens	Marx	2008	19: 16 (2)		ダイアナは月の女神
Dream Ball Group	ドリームボール	cooperi hyb.	Yoshida	2007	17: 15 (3)	17: 15 (4~6)	Clones 1~4. 1号から4号まである。
Ebisu Nishiki'	えびす錦	cooperi hyb.	Hirose	2006	16: 3 (2)		(Ebisu = God of wealth)
Emperor'	エンペラー	imperialis (pilifera)	Hayashi	2006	15: 7	15: 10	マキシマから改名。オブツーサ系最大型
Enkū'	円空	pygmaea hybrid	Horikawa	2009	20: 12 (3)		(A famous priest)
Frost Morn'							
Frost Morn	フロストモーン	wimii hyb.	Ohkuwa	2001	5: 3 (1)		H. badia x H. wimii ?
	フロストモーンフロスティ	wimii hyb. badia	Ohkuwa Kawahigashi	2001 2004	5: 3 (1) 12: 3 (1)		H. badia × H. wimii ? 白風とは別個体。
Frosty'							
Frosty' Fūga'	フロスティ	badia	Kawahigashi	2004	12: 3 (1)	9: 1, 9: 16, 10: 16	白風とは別個体。 (elegant) グループ名
Frosty' Fūga' Galaxy Group Gekkō'	フロスティ 風雅 銀河系ピクタ 月光	<i>badia</i> <i>comptoniana</i> hyb. Pikuta Dan <i>comptoniana</i> hyb.	Kawahigashi Nishi Tsukahara Hayashi	2004 2009 2002 2004	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2)	9: 1, 9: 16, 10; 16	白風とは別個体。 (elegant) グループ名 旧名: スプリンプトB (Moon light)
Frosty' Fūga' Balaxy Group Gekkō' Gessekai'	フロスティ 風雅 銀河系ピクタ 月光 月世界	<i>badia</i> <i>comptoniana</i> hyb. Pikuta Dan <i>comptoniana</i> hyb. <i>wimii</i> hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa	2004 2009 2002 2004 2007	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5)	9: 1, 9: 16, 10; 16	白風とは別個体。 (elegant) グループ名 旧名: スプリンプトB (Moon light)
Frosty' Fūga' Balaxy Group Gekkō' Gessekai' Gian-A'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi	2004 2009 2002 2004 2007 2005	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4)	9: 1, 9: 16, 10; 16	白風とは別個体。 (elegant) グループ名 旧名: スプリンプトB (Moon light)
Frosty' Fūga' Galaxy Group Gekkō' Gessekai' Gian-A' Gian-A' Giant Panda'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントバンダ	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi	2004 2009 2002 2004 2007 2005 2007	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1	9: 1, 9: 16, 10; 16	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ・
Frosty' Füga' Galaxy Group Gekkö' Gessekai' Gian-A' Giant Panda' Giga-pulchella'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントバンダ ギガプルケラ	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa	2004 2009 2002 2004 2007 2005 2007 2003	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6)	9: 1, 9: 16, 10; 16	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名
Frosty' Füga' Galaxy Group Geskeka' Gessekai' Gian-A' Gian-A' Giant Panda' Giga-pulchella' Gigas Nishiki'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa	2004 2009 2002 2004 2007 2005 2007 2003 2006	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2)		白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名
Frosty' Füga' Galaxy Group Geska' Gian-A' Gian-A' Gian-Panda' Giga-pulchella' Gigas Nishiki' Ginga Tetsudō'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントバンダ ギガプルケラ ギガス錦 銀河鉄道	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6: 11 (1)	9: 1, 9: 16, 10: 16 18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train)
Frosty' Füga' Salaxy Group Gekko' Gessekai' Gian-A' Gian-A' Gian-A' Giaga-pulchella' Gigas Nishiki' Ginga Tetsudo' Gingitsune'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントバンダ ギガプルケラ ギガス錦 銀河鉄道 銀狐	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6: 11 (1) 11: 16 (1)	18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group
Frosty' Fūga' Salaxy Group Gekko' Gessekai' Gian-A' Gian-A' Gigan-Pulchella' Gigas Nishiki' Ginga Tetsudo' Gingitsune' Ginrei'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀麗	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2004	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3)		白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace)
Frosty' Fūga' Salaxy Group Gekko' Gessekai' Gian-A' Gian-A' Giant Panda' Giga Pulchella' Gigga Nishiki' Ginga Tetsudō' Gingitsune' Ginrei' Ginrei	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントバンダ ギガブルケラ ギガス錦 銀河鉄道 銀腿 銀沙	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3) 20: 17 (8)	18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver sand)
Frosty' Fūga' Salaxy Group Gekko' Gessekai' Gian-A' Gian-A' Giga-pulchella' Giga Nishiki' Ginga Tetsudō' Gingitsune' Ginrei' Ginse Group Ginsekai'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀腿 銀沙 銀世界	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan wimii hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo Nishi	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009 2001	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3) 20: 17 (8) 5: 3 (3)	18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver sand) (Silver world)
Frosty' Fūga' Galaxy Group Gekko' Gessekai' Gian-A' Giga-pulchella' Gigas Nishiki' Ginga Tetsudô' Gingitsune' Ginrei' Ginse Group Ginsekai' Ginteijô'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀腿 銀沙 銀市城	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan wimii hyb. 'Green Gem' hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo Nishi Ohkuwa	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009 2001 2006	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3) 20: 17 (8) 5: 3 (3) 15: 3 (6)	18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver sand) (Silver world) (Silver emperor's castle) 白帝城枝変わりとは別。
Frosty' Fūga' Salaxy Group Gekko' Gessekai' Gian-A' Giga-pulchella' Gigas Nishiki' Ginga Tetsudō' Gingitsune' Ginrei' Ginse Group Ginsekai' Ginteijō' Glass Compto'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀腿 銀沙 銀世界 銀帝城 ガラスコンプト	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan wimii hyb. 'Green Gem' hyb. comptoniana hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo Nishi Ohkuwa Hayashi	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009 2001	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3) 20: 17 (8) 5: 3 (3) 15: 3 (6) 5: 2 (3)	18: 16 (2)	白風とは別個体。 (elegant) グルーブ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver grace) (Silver sand) (Silver world) (Silver emperor's castle) 白帝城枝変わりとは別。 'Garasu' (15: 10) is synonym. 「ガラス」は異名。
Frosty' Fūga' Fūga' Galaxy Group Gekko' Gessekai' Gian-A' Giant Panda' Giga-pulchella' Gigas Nishiki' Ginga Tetsudō' Gingitsune' Ginrei' Ginse Group Ginsekai' Ginteijo' Glass Compto' Godzilla'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀腿 銀沙 銀世界 銀帝城 ガラスコンプト ゴジラ	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan wimii hyb. 'Green Gem' hyb. comptoniana hyb. pallida	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo Nishi Ohkuwa Hayashi Ohkuwa	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009 2001 2006 2001 2006	$\begin{array}{c} 12; 3 (1)\\ 20; 15 (10)\\ 8; 16\\ 11; 7 (2)\\ 17; 3 (5)\\ 13; 2 (4)\\ 18; 1\\ 9; 5 (6)\\ 16; 2 (2)\\ 6; 11 (1)\\ 11; 16 (1)\\ 15; 3 (3)\\ 20; 17 (8)\\ 5; 3 (3)\\ 15; 3 (6)\\ 5; 2 (3)\\ 6; 3 (4)\\ \end{array}$	18: 16 (2)	白風とは別個体。 (elegant) グループ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver sand) (Silver world) (Silver emperor's castle) 白帝城枝変わりとは別。
Frosty' Fūga' Salaxy Group Gekko' Gessekai' Gian-A' Giga-pulchella' Gigas Nishiki' Ginga Tetsudō' Gingitsune' Ginrei' Ginse Group Ginsekai' Ginteijō' Glass Compto'	フロスティ 風雅 銀河系ピクタ 月光 月世界 ジャイアンーA ジャイアントパンダ ギガプルケラ ギガス錦 銀河鉄道 銀腿 銀沙 銀世界 銀帝城 ガラスコンプト	badia comptoniana hyb. Pikuta Dan comptoniana hyb. wimii hyb. pilifera hyb. pygmaea hyb. gigas-pulchella gigas pygmaea tricolor pygmaea hyb. Pikuta Dan wimii hyb. 'Green Gem' hyb. comptoniana hyb.	Kawahigashi Nishi Tsukahara Hayashi Oikawa Nishi Nishi Ohkuwa Ohkuwa Hayashi Tsukahara Kobayashi Ohkubo Nishi Ohkuwa Hayashi	2004 2009 2002 2004 2007 2005 2007 2003 2006 2001 2004 2006 2009 2001	12: 3 (1) 20: 15 (10) 8: 16 11: 7 (2) 17: 3 (5) 13: 2 (4) 18: 1 9: 5 (6) 16: 2 (2) 6; 11 (1) 11: 16 (1) 15: 3 (3) 20: 17 (8) 5: 3 (3) 15: 3 (6) 5: 2 (3)	18: 16 (2)	白風とは別個体。 (elegant) グルーブ名 旧名:スプリンプトB (Moon light) (Moon world) マキアージュ = シュガーリップと同じ Temporary name. 仮名 (Variegated gigas) Temporary name. invalid 仮名 (Galaxy train) (Silver fox) Dairi Group (Silver grace) (Silver grace) (Silver sand) (Silver world) (Silver emperor's castle) 白帝城枝変わりとは別。 'Garasu' (15: 10) is synonym. 「ガラス」は異名。

Table 1-A-2	Soft leaf group	(continued)	軟葉グループ	(玉万類を除く)
Table I-A-Z.	Soft lear group	(continueu)	私来ノルノ	(上ノカ現と「「、

	ar group (contil	nued) 軟葉グル-	ノ(上力規と	1//14			
Cultivar/Group name	品種名/グループ		Breeder/Author	Year	No.: p. (pic.)	Other issues	Comments (meaning)
'Green Phantom'	グリーンファントム	comptoniana hyb.	Tsuruoka	2007	17: 15 (2)		
'Green Woodii'	グリーンウッディ	Pikuta Dan hyb.	Nishi	2001	6: 15 (4)	9: 5 (1)	
'Gremlin'	グレムリン	pygmaea hyb.	Bob Kent	2004	11:5(6)		
Hakugin Emaki Gr.	白銀絵巻	venusta hyb.	Harada	2006	15: 2 (4)	11: 7 (5), 15: 10,	(Silver Roll) <i>H. venusta</i> x 'Hakuginjō'
			Turbou			15: 15 (3)	
Hakugin Pikuta Gr.	白銀ピクタ	Pikuta Dan		2001	5: 9 (2)		(Hakugin = Silver) Silver is translation.
'Hakuginjō'	白銀城	wimii hyb.	Horikawa	2001	5: 3 (5)		(Silver castle) 白魔は異名 'Hakuma' is synonym.
'Hakuji'	白磁	рудтава	Ohkuwa	2009	20: 12 (4)		(White Porcelain) 粉雪兄弟。青磁実生。
'Hakuteijō'	白帝城	wimii hyb.	Yamashiro	1999	2: 5 (18)	3: 2 (3), 4: 15 (4)	(White emperor's castle) 'Green Gem' x H. wimii
'Hama-chidori'	浜千鳥	wimii hybrid	Bob Kent	2009	20: 13 (12)		(Plover)
'Hana-aoi'	花葵	splendens hyb.	Hayashi	2005	13: 3 (2)		(Flower mallow)
'Hanakage'	花影	comptoniana hyb.	Gehou/Hayashi	2005	13: 2 (2)	18: 15 (2)	(Flower shadow)
'Hanayome Ningyö'	花嫁人形	aokiae hyb.	Hayashi	2009	20: 17 (11)		(Bridal Doll) Daruma Pikuta Group
'Hedgehog'	ヘッジホグ	albispina-venusta	Marx	2006	15: 10	11: 7 (4)	'Albinusta' 改名。ハリネズミ。 白翁 は販売名
Hikaru Genji Gr.	光源氏	Pikuta Dan	Ohkubo	2009	20: 16 (1, 2)		(Hero of Genji) A seedling group of Galaxy Gr.
'Hime Hakutei'	姫白帝	'Green Gem' hyb.	Ohkuwa	2004	11:7(3)	13: 3 (4)	(Grace white emperor)
'Hitomi'	瞳	retusa hyb.	Ohkubo	2007	17:8(6)		(Pupil, Eye)
'Honma'	本間	mutica hyb.	Honma	2007	18: 3 (2)		(Name of Breeder)
'Horikawa Pikuta'	堀川ピクタ	Galaxy Group	Tsukahara	2000	3: 3 (2)	7: 15, 15: 10	'Horikawa' is a synonym.
'Hoshikage'	星影	comptoniana hyb.	Imai-Ohkuwa	2007	18: 2 (5)		(Star shadow)
'Ice Candy'	アイスキャンディー	wimii hyb.	Yoshida	2007	18: 2 (2)		
Ichigo Daifuku'	英大福	splendens hyb.	Hayashi	2008	19: 4 (4)		(Rice cake with strawberry)
'Imagine'	イマジン	splendens hyb.	Bob Kent	2004	11:1		Best clone of Beverly Wonder Group.
'Inazuma Korekuta'	稲妻コレクタ	Korekuta Dan	Horikawa	2004	4: 11 (1)		'Scott' seedling? (Lightning correcta)
Inazuma Korekuta 'Iris'	相要コレクターイリス	lilacea	Breuer	2000			イリスは虹の女神
							銀河系ピクタ2次品種
'Ivory'	アイボリー	Galaxy Group	Tsukahara Nishi	2003 2005	9: 16 (2) 13: 16 (2)		
'Juhyō'	樹氷	'Isogani'- <i>bolusii</i>		-			(Rime on trees)
'June Bride'	ジューンブライド	virginea	Breuer	2008	19:9(1)		
'Jupiter'	ジュピター	<i>laeta</i> hyb.	Hayashi	2000	4: 11 (3)		
'Jupiter Seedling Nishiki'	ジュピター実生錦	laeta hyb.	Hayashi	2004	12: 2 (5)		王殿(Öden)錦と命名。Ödenは北欧神話の大神。
'Kabuki'	歌舞伎	comptoniana hyb.	Kawahigashi	2008			(Kabuki drama)
'Mösen Gusa'	毛繊草	ciliata	Fukuya	2009	20: 7	15: 8 (6)	(carpet grass) H. ciliata で最も美しい。新命名。
'Kagerō'	陽炎	retusa hyb.	Ohkubo	2002	7:4(6)		died before propagation (A shimmer of hot air)
Kaguya Group	かぐや	Pikuta Dan	Ohkubo	2009	00. 10 (0 4)		(Princess of Old story) Seedling Gr. of Galaxy Gr.
and a stoup			Olikubo	2009	20: 16 (3, 4)		(Princess of Old story) Seeding Gr. of Galaxy Gr.
'Kamen Butökai'	仮面舞踏会	retusa hyb.	Kawahigashi	2009	19: 5 (2)	18: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju'
		-				18: 2 (6)	
'Kamen Butŏkai'	仮面舞踏会	retusa hyb.		2008	19: 5 (2) 17: 2 (6)	18: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju'
'Kamen Butökai' 'Karakusa'	仮面舞踏会 唐草	<i>retusa</i> hyb. <i>comptoniana</i> hyb.	Kawahigashi	2008 2007	19: 5 (2) 17: 2 (6)	18: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi'	仮面舞踏会 唐草 唐草獅子	<i>retusa</i> hyb. <i>comptoniana</i> hyb. <i>comptoniana</i> hyb.	Kawahigashi Kawahigashi	2008 2007 2008	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5)	18; 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend.	Kawahigashi Kawahigashi Marx	2008 2007 2008 2008	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5)	18: 2 (6) 16: 14 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' ' <mark>Kaze-no-yōsei</mark> '	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi	2008 2007 2008 2008 2005	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7		子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow)
'Kamen Butōkai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' ' <mark>Kaze-no-yōsei'</mark> 'Kinto-un'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi	2008 2007 2008 2008 2005 2009	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3)		子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kishi'	仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi	2008 2007 2008 2005 2009 2005 2006	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4)	16: 14 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。
'Kamen Butōkai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kishi' 'Klara'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 <u>風の妖精</u> 金斗雲 貴志 クララ	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer	2008 2007 2008 2005 2005 2009 2005 2006 2008	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2)	16: 14 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder)
'Kamen Butōkai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kishi' 'Kishi' 'Klara' 'Konayuki'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa	2008 2007 2008 2005 2009 2005 2006 2008 2008	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2)	16: 14 (3) 17: 1	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow)
'Kamen Butōkai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konayuki'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 木の葉ユニオン錦	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi	2008 2007 2008 2005 2009 2005 2006 2006 2006 2001	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2)	16: 14 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated)
'Kamen Butōkai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konoha-union Nishiki' 'Konparu'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 木の葉ユニオン錦 金春	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi	2008 2007 2008 2005 2009 2005 2006 2006 2008 2006 2001 2001	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2) 20: 15 (7)	16: 14 (3) 17: 1	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konparu'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 木の葉ユニオン錦 金春 古都姫	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi Ohkuwa	2008 2007 2008 2005 2009 2005 2006 2006 2008 2006 2001 2009 2003	19: 5 (2) 17: 2 (6) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2) 20: 15 (7) 9: 5 (4)	16: 14 (3) 17: 1	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime' 「音羽姫」に変更。
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konoha-union Nishiki' 'Konparu' 'Kotohime' 'Köyō'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 木の葉ユニオン錦 金春 古都姫 高陽	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi Ohkuwa Hirose	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2006 2001 2009 2003 2003	19: 5 (2) 17: 2 (6) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2) 20: 15 (7) 9: 5 (4) 7: 6 (1)	16: 14 (3) 17: 1 12: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime' 「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place)
'Kamen Butökai' 'Karakusa' 'Karasu-ageha' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konayuki' 'Konoha-union Nishiki' 'Konparu' 'Kotohime' 'Köyō' 'Kumadori'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 木の葉ユニオン錦 金春 古都姫 高陽 腰取り	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi Ohkuwa Hirose Ohkuwa	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2006 2001 2009 2003 2002 1999	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2) 20: 15 (7) 9: 5 (4) 7: 6 (1) 2: 3 (6)	16: 14 (3) 17: 1	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kara' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kōtohime' 'Kōtohime' 'Kūtohime' 'Kūtohime' 'Kūtohime' 'Kūtohime' 'Kūtohime'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ユニオン錦 金春 古都姫 高陽 隈取り 呉竹	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi Ohkuwa Hirose Ohkuwa Hayashi	2008 2007 2008 2005 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 1999 2009	19: 5 (2) 17: 2 (6) 19: 5 (3) 19: 4 (5) 13: 14 (2) 20: 7 13: 3 (3) 15: 3 (4) 19: 9 (2) 15: 2 (2) 6: 3 (2) 20: 15 (7) 9: 5 (4) 7: 6 (1) 2: 3 (6) 20: 17 (10)	16: 14 (3) 17: 1 12: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉銘」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konayuki' 'Konayuki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kūyō' 'Kumadori' 'Kuretake' 'Kurohime'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒姫	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Hayashi Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka	2008 2007 2008 2008 2005 2009 2005 2006 2008 2006 2008 2009 2003 2002 1999 2009 2009 2005	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。
'Kamen Butökai' 'Karakusa' 'Karasu-ageha' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yösei' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kūtohime' 'Kuretake' 'Kuroshima'	仮面舞踏会 唐草 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本ユニオン錦 金春 古高陽 隠取り 呉竹 黒純 黒縞	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ?	2008 2007 2008 2008 2005 2009 2005 2006 2008 2006 2008 2007 2009 2003 2002 2009 2009 2009 2005 1999	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kuratake' 'Kuratake' 'Kuroshima' 'Kuroshima' 'Kyō-murasaki'	仮面舞踏会 唐草 唐草 獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 菜ユニオン錦 金春 古高陽 隠取り 呉竹 黒縞 京紫	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hisose Ohkuwa Kayashi Tsuruoka ? Kawahigashi	2008 2007 2008 2008 2005 2009 2005 2006 2008 2006 2008 2009 2003 2002 1999 2009 2005	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Kaze-no-yōsei' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kishi' 'Konayuki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kumadori' 'Kuretake' 'Kurohime' 'Kuroshima'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒縞 夏紫 エル8 錦 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2000 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'.
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kuratake' 'Kuratake' 'Kuroshima' 'Kuroshima' 'Kyō-murasaki'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒姫 黒姫 京紫 エル8 錦 レースクィーン 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i>
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kara' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Kara' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kuratake' 'Kurotake' 'Kuroshima' 'Kuroshima' 'Kyō-murasaki' 'L& Nishiki'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒縞 夏紫 エル8 錦 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2000 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'.
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Karao-no-yōsei' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Klara' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kuratake' 'Kuratake' 'Kurothime' 'Kurothime' 'Kuroshima' 'Kuroshima' 'Kyō-murasaki' 'La Nishiki' 'Lace Queen'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒姫 黒姫 京紫 エル8 錦 レースクィーン 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. Viceolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i>
 'Kamen Butökai' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Kinto-un' 'Konoha-union Nishiki' 'Kunadori' 'Kurotake' 'Kurotake' 'Kuroshima' 'Kyō-murasaki' 'Laoc Queen' 'Laputa' 	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪葉ユニオン錦 金春 古高陽 隈取り 呉竹 黒縞 京紫 エル8 錦 レースクィーン ラピュタ 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb.	Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hisose Cohkuwa Kayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2000 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock. A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana x H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels")
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Kitara' 'Klara' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Kunadori' 'Kuretake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kushiki' 'Las Nishiki' 'Lace Queen' 'Laputa'	 仮面舞踏会 唐草草獅子 カラスアゲハ 烏城 風の妖精 金丸 金丸 クララ 粉雪葉ユニオン錦 金春 古高陽 限りり 呉竹 黒鶏 京紫 エル8 錦 レースクィーン ラピュタ レオ 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb.	Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Hayashi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Kayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock. A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana x H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels")
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kishi' 'Kinto-un' 'Kishi' 'Kitara' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Konayuki' 'Kuratake' 'Kuratake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Las Nishiki' 'Lace Queen' 'Laputa' 'Leo' 'Limelight'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 党ララ 粉雪葉ユニオン錦 金春 古高陽 限り 呉竹 黒姫 黒原紫 エル8 錦 レースクィーン ラピュタ レオ ライムライト 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. bayeri multi-taxa hyb. splendens jubata pygmaea	Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kunadori' 'Kuretake' 'Kuretake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Lace Queen' 'Laputa' 'Laputa' 'Lovely Lady' 'Lovely Queen'	 仮面貫踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金主 クララ 粉雪葉ユニオン錦 金春 古高陽 限り 呉竹 黒麻 東北8 原北ル8 レースクィーン ラピュタ レオ ライムライト ラブリークイーン 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. tricolor hyb.	Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Hayashi Breuer Ohkuwa Hayashi Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Kayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Breuer Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana x H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation)
'Kamen Butökai' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Karasujō' 'Kinto-un' 'Kinto-un' 'Kishi' 'Klara' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kunadori' 'Kuroshime' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kusoshima' 'Lace Queen' 'Laputa' 'Leo' 'Limelight' 'Lovely Lady'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金主志 クララ 粉雪葉ユニオン錦 金春 古高陽 限り 呉竹 黒線 京柴 エル8 ロースクィーン ラピュタ レオ ラブリーレディ 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. splendens hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb.	Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Kayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx	2008 2007 2008 2005 2009 2005 2006 2008 2006 2009 2009 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:4\ (1)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグループではない。
 'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Kuretake' 'Kuretake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Lace Queen' 'Laputa' 'Lavely Lady' 'Lovely Queen' 'Luna' 'Macubilis' 	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ュニオン錦 金春 古高陽 隈取り 呉竹 黒姫 黒姫 東姫 黒線 京紫 エル8 錦 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリークイーン ルナ マキュビリス 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. splendens hyb. tricolor hyb. splendens hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maculata-mirabilis	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2005 2000 2001 2007 2008 2007 2008 2007 2008 2006 2001 2005 2008 2006	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:4\ (1)\\ 15:9\ (4)\\ 11:5\ (2)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグループではない。 月 (Moon)
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Konoha-union Nishiki' 'Kotohime' 'Kuradori' 'Kuratake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Lace Queen' 'Laputa' 'Lace Queen' 'Luna' 'Lovely Queen' 'Luna' 'Macubilis' 'Macubilis'	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金 赴志 クララ 粉雪 東ユニオン錦 金春 古高陽 限り 呉竹 黒廠 黒線 京柴 エル8 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ フブリークイーン ルナ マギュビリス マグニフィカ錦 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. 'Kegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maculata-mirabilis magnifica	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2005 2000 2001 2007 2008 2000 2001 2007 2008 2006 2004 2005 2008 2006	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:9\ (4)\\ 11:5\ (2)\\ 7:13\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグループではない。 月 (Moon) Temporary name. Different from 'Pierrotta'
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Kuno-un' 'Konoha-union Nishiki' 'Kumadori' 'Kuretake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Lace Queen' 'Laoe Queen' 'Lovely Queen' 'Luna' 'Macubilis' 'Magnifica Nishiki' Majingar Group	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 党ララ 粉雪 東ユニオン錦 金春 古高陽 限り 呉竹 黒焼 黒線 京紫 エル8 錦 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ フブリーレディ フブリーレディ マブリークイーン ルナ マキュビリス マグニフィカ錦 マジンガー 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. 'Kegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maculata-mirabilis magnifica 'Scott' hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2001 2007 2008 2000 2001 2007 2008 2000 2001 2007 2008 2006 2004 2005 2008 2006	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:5\ (2)\\ 7:13\\ 8:5\ (6)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグルーブではない。 月 (Moon) Temporary name Temporary name. Different from 'Pierrotta' スコット系交配のグルーブ名。清涼殿を含む。
'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Kuretake' 'Kuretake' 'Kuroshima' 'Kuroshima' 'Kuroshima' 'Lace Queen' 'Lace Queen' 'Luna' 'Lovely Queen' 'Luna' 'Macubilis' 'Magnifica Nishiki' Majingar Group 'Makyō Ni	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金車志 クララ 粉雪、ユニオン錦 金春 古高陽 限り 呉竹 黒瘢 原戦り 呉竹 黒癬 京兆8 錦 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ フブリーレディ マブニフィカ錦 マジンガー 魔境錦 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. 'Kegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maoulata-mirabilis magnifica 'Scott' hyb. 'Kegani' hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2001 2007 2008 2000 2001 2007 2008 2000 2001 2007 2008 2006 2004 2005 2008	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:5\ (2)\\ 7:13\\ 8:5\ (6)\\ 14:2\ (6)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3) 12: 3 (2)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana x H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグルーブではない。 月 (Moon) Temporary name. Different from 'Pierrotta' スコット系交配のグルーブ名。清涼殿を含む。 (Makyō = Devil forest)
 'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Kurothime' 'Laoe Queen' 'Laoe Queen' 'Laoe Queen' 'Lovely Lady' 'Lovely Queen' 'Luna' 'Macubilis' 'Magnifica Nishiki' Majingar Group 'Makyō Nishiki' Marble Group 	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉ュニオン錦 金春 古高陽 隠取り 呉竹 黒姫 黒姫 東坂 エル8 錦 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ マブノークイーン ルナ マキュビリス マゲニフィカ錦 マジンガー 魔境錦 マーブル (ピクタ) 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. splendens hyb. tricolor hyb. iKegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maoulata-mirabilis magnifica 'Scott' hyb. 'Kegani' hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2001 2007 2008 2000 2001 2007 2008 2000 2001 2005 2008 2006 2004 2005 2008 2006	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:5\ (2)\\ 7:13\\ 8:5\ (6)\\ 14:2\ (6)\\ 3:16\ (3)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3) 12: 3 (2) 5: 10 (7), 15: 10	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana x H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグルーブではない。 月 (Moon) Temporary name. Different from 'Pierrotta' スコット系交配のグルーブ名。清涼殿を含む。 (Makyō = Devil forest) グループ名
 'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Kurothime' 'Lace Queen' 'Lace Queen' 'Laputa' 'Lace Queen' 'Laputa' 'Lovely Lady' 'Lovely Queen' 'Luna' 'Macubilis' 'Maginifica Nishiki' Majingar Group 'Makyo Nishiki' Marble Group 'Marble Star' 	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 党ララ 粉雪 ネニオン錦 金春 古高陽 限り 呉竹 黒瘢 黒線 京兆8 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ マブリーレディ マブリーレディ マブノーカ錦 マジンガー 魔境 マーブルスター 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. 'Kegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maoulata-mirabilis magnifica 'Scott' hyb. 'Kegani' hyb. picta picta	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent	2008 2007 2008 2005 2009 2005 2006 2008 2006 2008 2009 2003 2002 2009 2009 2009 2009 2009	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 7:13\\ 8:5\ (6)\\ 14:2\ (6)\\ 3:16\ (3)\\ 4:16\ (1)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3) 12: 3 (2)	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime'.「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグルーブではない。 月 (Moon) Temporary name. Different from 'Pierrotta' スコット系交配のグルーブ名。清涼殿を含む。 (Makyō = Devil forest) グルーブ名 Marble Group "Anonymous" is an error.
 'Kamen Butökai' 'Karakusa' 'Karakusa-jishi' 'Karasu-ageha' 'Karasujo' 'Karasujo' 'Karasujo' 'Karasujo' 'Karasujo' 'Kinto-un' 'Kishi' 'Konoha-union Nishiki' 'Kurothime' 'Laoe Queen' 'Laoe Queen' 'Laoe Queen' 'Laoe Queen' 'Lovely Lady' 'Lovely Queen' 'Luna' 'Macubilis' 'Magnifica Nishiki' Majingar Group 'Makyō Nishiki' Marble Group 'Marilyn' 	 仮面舞踏会 唐草獅子 カラスアゲハ 烏城 風の妖精 金斗雲 貴志 クララ 粉雪 本の葉 古高陽 限り 呉竹 黒姫 黒ヶ 北8 錦 レースクィーン ラピュタ レオ ライムライト ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ ラブリーレディ マブリーレディ マブルーレディ マブルーレディ マブルーン 尿境錦 マーブルパクター マリリン 	retusa hyb. comptoniana hyb. comptoniana hyb. dimorpha-splend. splendens hyb. villosa splendens hyb. splendens latispina pygmaea bayeri comtoniana splendens hyb. pallida hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. tricolor hyb. iKegani' hyb. bayeri multi-taxa hyb. splendens jubata pygmaea splendens hyb. wimii-splendens globosiflora hyb. maoulata-mirabilis magnifica 'Scott' hyb. iKegani' hyb. picta pota comptoniana hyb.	Kawahigashi Kawahigashi Marx Ohkuwa/Harada Hayashi Hayashi Kishi Breuer Ohkuwa Hayashi Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hirose Ohkuwa Hayashi Tsuruoka ? Kawahigashi Kobayashi Nishi Hayashi Breuer Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Bob Kent Marx Hayashi Ohkubo Ohkubo Hayashi	2008 2007 2008 2005 2009 2005 2006 2008 2006 2001 2009 2003 2002 2009 2005 2000 2001 2007 2008 2000 2001 2008 2000 2000 2000 2000	$\begin{array}{c} 19:5\ (2)\\ 17:2\ (6)\\ 19:5\ (3)\\ 19:4\ (5)\\ 13:14\ (2)\\ 20:7\\ 13:3\ (3)\\ 15:3\ (4)\\ 19:9\ (2)\\ 15:2\ (2)\\ 6:3\ (2)\\ 20:15\ (7)\\ 9:5\ (4)\\ 7:6\ (1)\\ 2:3\ (6)\\ 20:17\ (10)\\ 14:15\ (9)\\ 15:10\\ 13:2\ (3)\\ 4:11\ (4)\\ 6:15\ (1)\\ 17:5\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 14:2\ (4)\\ 19:8\ (5)\\ 6:11\ (2)\\ 7:13\\ 8:5\ (6)\\ 14:2\ (6)\\ 3:16\ (3)\\ 4:16\ (1)\\ 5:2\ (4)\\ \end{array}$	16: 14 (3) 17: 1 12: 2 (6) 3: 3 (1) 2: 23 (3), 5: 9 (3) 12: 3 (2) 5: 10 (7), 15: 10	子紋寿改名 (Mask Ball) Changed from 'Commonju' (arabesque) (arabesque Lion) (Chinese peacock, A butterfly) 古都姫姉妹 (Castle of crow) (Fairy of wind = Sylphide) 新命名。 淀君は異名。悟空はより大型 (A cloud vehicle) (Name of Breeder) (Name of Breeder) (Powder snow) (Foliate-marking <i>H. bayeri</i> variegated) (Golden spring) Homonym. Changed to 'Otowahime',「音羽姫」に変更。 「紅葉錦」は販売名 (Name of Breeder's place) (A make up of Kabuki actors) (Dark bamboo) (Black princess) 黒ダルマは異名。 (Black stripes) A hybrid. 交配種。 (Kyoto purple) =ザラ窓錦。Temporary name of 'Zaramado Nishiki'. (<i>H. comptoniana</i> x <i>H. aranea</i>) x <i>H. gigas</i> (Flying island in "Gulliver's Travels") (White lion in Tezuka's animation) Bev's Wonder Group ビバリーワンダーグループではない。 月 (Moon) Temporary name. Different from 'Pierrotta' スコット系交配のグループ名。清涼殿を含む。 (Makyō = Devil forest) グループ名 Marble Group "Anonymous" is an error. (Marilyn Monroe) 'Glass Compto' seedling
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Table 1-A-3. Soft leaf group (continued) 軟葉グループ (玉万類を除く)

Cultivar/Group name 'Medusa' 'Meiro Pikuta' 'Mellow' 'Mirror' 'Mirror Ball'	品種名/グループ		-プ(玉万類を	POK V			
' <mark>Meiro Pikuta'</mark> 'Mellow' 'Mirror'	四1111/1/1/1/	Species*/Group	Breeder/Author	Year	No.: p. (pic.)	Other issues	Comments (meaning)
'Mellow' 'Mirror'	メドーサ	joubertii	Fukuya	2008	19: 8 (1)		福屋氏の本の12頁の個体。Fukuya's book, page 12.
'Mirror'	迷路ピクタ	Pikuta Dan	Hayashi	2001	6: 4 (4)	15: 10	"Maze" is translation of "Meiro".
	メロウ	splendens	Hayashi	2007	17: 5 (5)		
'Mirror Ball'	ミラー	Pikuta Dan	Oikawa	2006	15: 10	5: 9 (4)	旧 (老川) 白銀ピクタ (Oikawa's Silver picta)
	ミラーボール	wimii hyb.	Ohkuwa/Nishi	2005	13: 15 (5)		
'Mitohime'	御津姫	splendens hyb.	Ohkuwa	2005	13: 15 (1)		古都姫姉妹(Princess of Mito)
Moe Group	もえ	retusa hyb.	Ohkubo	2007	17:9 (3)		(Yellow green)
Moegi Group	萌黄	janvlokii hyb.	Ohkuwa	2006	15: 10	5: 10 (6)	(Verdure) 旧: 銀緑ピクタ。Old n.: 'Silver Green Picta'
	紋寿	retusa hyb.	Kawahigashi	2003	9: 5 (3)	0. 10 (0)	(Retusa with markings)
'Monju'				2003			(necusa with markings)
'Moon Stone'	ムーンストーン	comptoniana hyb.	Tsuruoka		17: 15 (1)		(Black Land, from "The Lord of the Rings")
'Mordor'	モルドール	wimii hybrid	Hanai	2009	20: 1	0 1 (0) 0 0	
Mosaic Pikuta Gr.	モザイクピクタ	Pikuta Dan	Mr. Y.	2001	5: 10 (8)	6: 4 (2), 9: 3	Mosaic Picta is miss-transcription.
'Mt. Blanc'	モンブラン	Galaxy Group	Sanekata	2003	10: 16 (2)		銀河系ピクタ2次品種
'Murasaki Emperor'	紫エンペラー	imperialis hyb.	Nishi/Hayashi	2009	20: 21 (4)		(Purple Emperor)西氏「紫牡丹」改名(重複名)
'Murasaki Taiyō'	紫太陽	multi-taxa hyb.	Kawahigashi	2008	19: 5 (6)		(Purple Sun)
'Murasaki-sikibu'	紫式部	splendens	Kobayashi	2007	17:4(3)		小林 D-1. (Author of "The Tale of Genji")
'Musashi'	武蔵	<i>badia</i> hyb.	Ohkuwa	2006	15: 1		(An old Japanese warship)
'Muscat'	マスカット	dielsiana	Hayashi	2009	20: 21 (1)		
'Nautilus'	ノーチラス	splendens	Bob Kent	2009	20: 8	11: 3 (1), 13: 9 (3)	オウムガイ。Proposed name for 'Silvidens-A'
'Nebuta'	ねぶた	retusa hyb.	Hayashi	2007	17:8(1)		(Nebuta festival) 西氏「黒船」と同じ?
'Neko Bus'	猫バス	limbata	Kawahigashi	2009	20: 8	15:8 (5)	(Cat Bus) 新命名。
'Nellii'	ネリー	angiras	Hayashi	2004	12: 3 (3)		H. angiras の特優個体
'Night Dragon'	ナイトドラゴン	atrofusca hyb. ?	Yoshida	2008	19: 4 (3)		
'Nikkö'	日光	comptoniana hyb.	Hayashi	2007	17: 3 (2)		(Sun shine) 旧名: スプリンプトA
'Nishiaki No. 1'	西明 No. 1	splendens	Nishiaki	2001	5: 2 (1)		Temporary name for 'Silver King'
Norifu Compto Gr.	糊斑コンプト	comptoniana	(kaneko)	2009	20: 14 (4)		A pattern of variegation,
'Õ Yumedono'	大夢殿	pygmaea	Horikawa	2003	10: 3 (4)		(Large 'Yumedono')
'Õboshi Pikuta'	大星ピクタ	Pikuta Dan	Hagiwara	2002	8: 5 (3)		(Large star Pikuta)
'Ōden Nishiki'	王殿錦	laeta hyb.	Sanekata	2009	20: 8	12: 2 (5)	Oden は北欧神話の大神(ジュピター相当)。新命名。
	踊り子			2003	17: 3 (3)	12. 2 (0)	(Geisha girl) Daruma Pikuta Group.
'Odoriko'		tricolor hyb.	Hagiwara				
'Ogon Compto'	黄金コンプト	comptoniana	Hayakawa	2009	20: 14 (3)		(Golden comptoniana)
'Okina'	翁	odetteae	Hayashi	2006	16: 14 (4)		14°
Okubo Red Group	大久保赤	splendens	Ohkubo	2001	5: 2 (2)		グループ名
'Onimusha'	鬼武者	dimorpha hyb.	Venter	2005	14: 1		(Devil samurai)
Ō-nyū Group	黄乳	Pikuta Dan	Ohkubo	2009	20: 17 (8)		(Yellow milk) A seedling Gr. of Galaxy Gr.
'Opal'	オパール	fumosa	Hayashi	2009	20: 21 (5)		ほとんどの葉にオパール様白玉が入る。
'Operaza-no-kajjin'	オペラ座の怪人	<i>pygmaea</i> hyb.	Kawahigashi	2008	19: 5 (5)		(The Phantom of the Opera)
'Orfeu'	オルフェ	tricolor	Hayashi	2009	20: 8	3: 14 (2)	旧チョコレート Changed from 'Chocolate'. 新命名。
'Orion'	オリオン	Galaxy Group	Hayashi	2003	9: 16 (1)	12:2 (3)	
'Orochi'	おろち	retusa hyb.	Ohkubo	2007	17:8(4)		コンコルドは販売名。(Giant snake)
'Ō-ruri'	大瑠璃	comptoniana	Hayashi	2009	20: 14 (6)		(Large Lapis Lazuli) 仮名: グリーングラスー4
Otowahime'	音羽姫	splendens hyb.	Ohkuwa	2009	20: 8	9: 5 (4), 13: 14 (1)	(princess of Otowa) 重複のため新古都姫から再改名。
'Ōzora'	大空	laeta	Hayashi	2009	20: 8	2: 3 (7)	(Large sky) Tokuami Group 新命名。
'Paint Glass'	ペイントグラス	mutica	Hosogai	2006	15: 2 (3)		
'Pale Peace'	ペールピース	retusa hyb.	Bred in Australia	2007	18:3(1)		オーストラリアで作出
Pandora Group	パンドラ (クラシック)	Pikuta Dan	Ohkubo	2009			白雪姫実生。クラシックは特優品の意味。
'Panja'	パンジャ	jubata	Breuer	2008	19: 8 (6)		(Father of Leo) ジャングル大帝レオの父親。
		mutica-badia-splen.	Marx	2008	19: 16 (3)		
'Parthenon'	パルテノン						
'Passion'	パッション	pallida-picta	Bob Kent	2007	17: 2 (2)	15.10	パールピタクズ David Dillate Orean Oreanstance
'Pearl Pikuta'	パールピクタ	aokiae hyb.	Oikawa	2001	5:8(1)	15: 10	パールピクタ系。Pearl Pikuta Group. Correct name.
'Pierrota'	ピエロタ	magnifica	Hayashi	2009			Not "Magnifica Nishiki".マグニフィカ錦とは別。
'Pikachū'	ピカチュウ	sakaii	Hayashi	2008			全斑だが中心部が緑。(A Pocket Monster)
'Pinky'	ピンキー	badia-splendens	Sanekata	2002			
	ポラリス	Pigu Dan	Harada	2009			Byakkotai Gr. 意味:北極星。白虎隊最優品の一つ。
'Polaris'		bolusii hyb.	Tsuruoka	2005	14; 15 (7)		
	プリンセスドレス	Doldali Tiyo.					
'Polaris'	プリンセスドレス パフ	Galaxy Group	Hayashi	2003	10: 16 (3)		銀河系ピクタ2次品種
'Polaris' 'Princess Dress'				2003 2004			銀河系ピクタ2次品種 Translation of 'Akagitsune'
'Polaris' 'Princess Dress' 'Puff'	パフ	Galaxy Group	Hayashi		11: 16 (2)	5: 10 (5)	
'Polaris' 'Princess Dress' 'Puff' 'Red fox'	パフ 赤狐	Galaxy Group tricolor	Hayashi Tsukahara	2004	11: 16 (2)	5: 10 (5) 15: 10	Translation of 'Akagitsune'
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group	パフ 赤狐 レッドストライプ	Galaxy Group tricolor tricolor hyb.	Hayashi Tsukahara Ohkuwa	2004 2006	11: 16 (2) 15: 10 6: 4 (1)		Translation of 'Akagitsune' 旧名:白銀ゼブラ Old name: Silver zebra.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki'	パフ 赤狐 レッドストライプ ロイヤルピクタ	<i>Galaxy Group</i> <i>tricolor</i> <i>tricolor</i> hyb. Pikuta Dan	Hayashi Tsukahara Ohkuwa Hayashi	2004 2006 2001	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6)		Translation of 'Akagitsune' 旧名:白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju'	パフ 赤狐 レッドストライプ ロイヤルピクタ 緑虎錦 竜珠	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi	2004 2006 2001 2009	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1)	15: 10	Translation of 'Akagitsune' 旧名: 白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju' 'Ryūju Nishiki'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Hayashi	2004 2006 2001 2009 2000 2000	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2)	15: 10	Translation of 'Akagitsune' 旧名: 白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball)
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju' 'Ryūju Nishiki' Sakai Pikuta Group	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb.	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Hayashi Sakai S.	2004 2006 2001 2009 2000 2000 1999	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5)	15: 10	Translation of 'Akagitsune' 旧名: 白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball)
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring.	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Hayashi Sakai S. Horikawa	2004 2006 2001 2009 2000 2000 1999 2009	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11)	15: 10	Translation of 'Akagitsune' 旧名:白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated)白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。 One of Hakugin Pikuta Gr.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata	2004 2006 2001 2009 2000 2000 1999 2009 2009	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5)	15: 10	Translation of 'Akagitsune' 旧名: 白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。 One of Hakugin Pikuta Gr. Name of the breeder.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta '	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方コレクタ	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata	2004 2006 2001 2009 2000 2000 1999 2009 2009 2009	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1)	15: 10 2: 18 (4), 7: 14 (5)	Translation of 'Akagitsune' 旧名:白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated)白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta ' 'Sanekata Nishiki'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方錦	Galaxy Group tricolor Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari dekenahii	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata Hayashi	2004 2006 2001 2009 2000 2000 1999 2009 2009 2009	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1) 15: 10	15: 10	Translation of 'Akagitsune' 旧名:白銀ゼプラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription. "Sanekata's variegated" is translation.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta '	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方錦 三仙寿	Galaxy Group tricolor tricolor hyb. Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata Hayashi Nishi	2004 2006 2001 2009 2000 1999 2009 2009 2009 2002 2006 2005	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1) 15: 10 14: 3 (2)	15: 10 2: 18 (4), 7: 14 (5) 5: 10 (9)	Translation of 'Akagitsune' 旧名:白銀ゼプラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated)白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription. "Sanekata's variegated" is translation. Similar to 'Ollasonii', but very big.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta ' 'Sanekata Nishiki'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方コレクタ 実方錦 三仙寿 青磁	Galaxy Group tricolor Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari dekenahii	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata Hayashi	2004 2006 2001 2009 2000 1999 2009 2009 2009 2002 2006 2005 2006	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1) 15: 10 14: 3 (2) 15: 10	15: 10 2: 18 (4), 7: 14 (5) 5: 10 (9) 4: 13 (1)	Translation of 'Akagitsune' 旧名:白銀ゼプラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription. "Sanekata's variegated" is translation. Similar to 'Ollasonii', but very big. (Celadon) Group name.
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta' 'Sanekata Nishiki' 'Sanesata Nishiki'	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方錦 三仙寿	Galaxy Group tricolor Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari dekenahii cooperi hyb.	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata Hayashi Nishi	2004 2006 2001 2009 2000 1999 2009 2009 2009 2002 2006 2005 2006 2005	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1) 15: 10 14: 3 (2) 15: 10 20: 8	15: 10 2: 18 (4), 7: 14 (5) 5: 10 (9)	Translation of 'Akagitsune' 旧名:白銀ゼブラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated)白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription. "Sanekata's variegated" is translation. Similar to 'Ollasonii', but very big. (Celadon) Group name. (Imperial house) Majingar Gr. マジンガーGr. 新命名。
'Polaris' 'Princess Dress' 'Puff' 'Red fox' Red Stripe Group Royal Pikuta Group 'Ryokko Nishiki' 'Ryūju' 'Ryūju Nishiki' Sakai Pikuta Group 'Sandra' 'Sanekata Compto' 'Sanekata Korekuta' 'Sanekata Nishiki' 'Sanen-ju' Seiji Group	パフ 赤狐 レッドストライブ ロイヤルピクタ 緑虎錦 竜珠 竜珠錦 酒井ピクタ サンドラ 実方コンプト 実方コレクタ 実方錦 三仙寿 青磁	Galaxy Group tricolor Pikuta Dan Pigu Dan bayeri bayeri janvlokii hyb. wimii-spring. comptoniana beiyari dekenahii cooperi hyb. pygmaea	Hayashi Tsukahara Ohkuwa Hayashi Hayashi Hayashi Sakai S. Horikawa Sanekata Sanekata Hayashi Nishi Ohkuwa	2004 2006 2001 2009 2000 1999 2009 2009 2009 2002 2006 2005 2006	11: 16 (2) 15: 10 6: 4 (1) 20: 12 (6) 4: 11 (1) 4: 11 (2) 2: 3 (5) 20: 13 (11) 20: 14 (5) 7: 4 (1) 15: 10 14: 3 (2) 15: 10 20: 8	15: 10 2: 18 (4), 7: 14 (5) 5: 10 (9) 4: 13 (1)	Translation of 'Akagitsune' 旧名:白銀ゼプラ Old name: Silver zebra. Royal White Group is synonym. (Green tiger variegated) 白虎隊系。Byakkotai Gr. (Dragon ball) (Variegated 'Ryūju'. Ryūju = Dragon ball) 白銀ピクタの一つ。One of Hakugin Pikuta Gr. Name of the breeder. Published without Roman scription. "Sanekata's variegated" is translation. Similar to 'Ollasonii', but very big. (Celadon) Group name.

Table 1-A-4. Soft leaf group (continued) 軟葉グループ (玉万類を除く)

Cultivar/Group name Shachi Group 'Shikinjō'			-プ(玉万類を		Maria (ata)	Otherster	Comments (meaning)
'Shikinjō'		Species*/Group	Breeder/Author			Other issues	Comments (meaning) (Shark)
	シャチ	retusa hyb.	Ohkubo	2007	17: 9 (6) 5: 3 (2)	11: 7 (1)	紫禁城は漢字誤り。(Purple-golden castle)
	紫金城	splendens hyb.	Hayashi Tsuruoka	2003	9: 15 (3)	16730	(New rock candy)
'Shin Kori-Zatō' 'Shin Kotohime'	新氷砂糖 新古都姫	<i>wimii</i> hyb. <i>splendens</i> hyb.	Ohkuwa	2005	13: 14 (1)		Homonym. Changed to 'Otowahime'.「音羽姫」に変更。
'Shin Mizuho'	新瑞穂	pygmaea	Ohkuwa	2002	7: 4 (5)		(New Mizuho. Mizuho is a place of Nagoya)
'Shinju'	真珠	Galaxy Group	Hayashi	2002	9: 16 (3)		then meane meane is a place of hage as
'Shinryokuzan'		comptoniana hyb.	Hayakawa	2009	20: 14 (1)		(Fresh Green Mountain) 銀鏡実生?
'Shinsekai'	新世界	wimii hyb.	Hayashi	2001	5: 3 (4)	18: 16 (3)	(New world) H. wimii x H. beukmanii ?
Shiraginu Emaki Gr.	白絹絵巻	venusta hyb.	Harada	2006	15: 10	11: 7 (6)	(White Silk Roll) <i>H, venusta</i> x 'Ginsekai'
'Shiranui'	不知火	comptoniana	Matsuno	2009	20; 14 (2)		(A famous Sumo wrestler) 名横綱。
'Shirayuki Hime'	白雪姫	Galaxy Group	Tsukahara	2003	9: 1		銀河系ピクタ。(Snow White)
'Shiro Kegani'	白毛ガニ	wimii hyb.	Nishi	2001	6: 15 (5)		(White 'Kegani') H. wimii x 'Kegani'
'Shiroi Yōsei'	白い妖精	bella	Hayashi	2006	16: 14 (6)		(White fairy)
'Shiromusha'	白武者	wimii hyb.	Ohkuwa	2006	15: 3 (5)		(White samurai)
'Shishinden'	紫宸殿	splendens hyb.	Ohkuwa	2006	15: 10	13: 3 (1)	紫震殿は漢字誤り。(An imperial building)
'Shocking Pikuta'	ショッキングピクタ	Pikuta Dan	Nishi	2005	13: 15 (3)		アケボノ斑?Whole variegation?
'Shunkin'	春琴	comptoniana hyb.	Banno-Harada	2009	20: 15 (12)		(Spring harp)
'Shuten Dōji'	酒吞童子	badia hyb.	Aoki/Hayashi	2001	6: 10 (6)	11: 15 (8)	(Red drank ogre)
'Shuten Dōji-B'	酒呑童子一B	badia hyb.	Imai	2005	14: 2 (5)		仮名。Aより蒼白色で赤くならない。弁慶より窓透明。
'Sikinjō'	紫金城	splendens hyb.	Hayashi	2001	5: 3 (2)	13: 16 (1)	(Purple-golden castle) 紫禁城は漢字誤り。
'Silky'	シルキー	'Yumedono' hyb.	Horikawa	2007	17: 3 (6)		
'Silvania'	シルバニア	mutica hyb.	Hayashi	2006	15: 10	13: 1	Old name: 'Silver mutica'. Changed for registration
Silver (picta) Group	シルバーピクタ	Pikuta Dan		2001	5: 9 (2)	15: 10	= Hakugin Pikuta Group. Miss-transcription.
'Silver Beetle'	シルバービートル	<i>wimii</i> hyb.	Marx/Hayashi	2008	19: 1		
'Silver Chateau'	シルバーシャトー	wimii hyb.	Tsuruoka	2005	14: 15 (4)		
'Silver fox'	銀狐	tricolor	Tsukahara	2004	11: 16 (1)		Translation of 'Gingitsune'
Silver-green Picta Gr.	銀緑ピクタ	<i>janvlokii</i> hyb.	Ohkuwa	2001	5: 10 (6)	15: 10	萌黄の旧名 Old name of Moegi Group
'Silver King'	シルバーキング	splendens	Nishiaki	2006	15: 10,	5: 2 (1), 17: 4 (2)	旧:西明No.1 Correct name for 'Nishiaki No.1'
'Silver mutica'	シルバームチカ	mutica hyb.	Hayashi	2005	13: 1	7: 4 (2), 13: 15 (4)	Old name of 'Silvania'
'Silver picta'	シルバーピクタ	Pikuta Dan		2001	5: 9 (4)	15: 10	= 'Mirror' 正名はミラー。
Silver zebra Group	白銀ゼブラ	tricolor hyb.	Ohkuwa	2001	5: 10 (5)	15: 10	レッドストライプの旧名。Old name of Red Stripe Gr.
'Silvidens-A'	シルビデンスーA	splendens	Bob Kent	2004	11:3(1)		ノーチラスの仮名。Temporary name of 'Nautilus'
'Snow White'	白雪姫	Galaxy Group	Tsukahara	2003	9: 1		Translation of 'Shirayuki Hime'
Solveig Group	ソルベーグ	gigas-venusta	Kawahigashi	2007	18: 3 (4)		グループ名。ギガヌスタは販売名。
'Star Dust'	スターダスト	<i>aokiae</i> hyb.	Kawahigashi	2004	12: 2 (4)		ダルマピクタ系最大型。Daruma Pikuta Group
'Star Wars'	スターウォーズ	wimii hyb.	Horikawa	2003	9: 5 (5)	12: 15 (4)	
'Subaru'	昴	silviae hyb.	Nishi	2007	18: 16 (1)		(Pleiades)
'Sunrise'	サンライズ	splendens hyb.	Bob Kent	2009	20: 9	11: 2 (1), 13: 8 (8)	Proposed name for 'Wimidens-A'
'Sunset'	サンセット	splendens hyb.	Bob Kent	2009	20: 9	11: 2 (2), 13: 8 (7)	Proposed name for 'Wimidens-B'
'Super bold lines'	極太線コレクタ	bayeri	堀川	2000	4; 15 (2)		Temporary name、仮名
'Taiyō'	太陽	comptoniana hyb.	Gehou/Nishi	2004	12: 15 (7)		
'Tamamo'	玉藻	globosiflora	Fukuya	2009	20:9	15: 9 (3), 17: 11 (1)	玉藻の前(Legendary beauty) 福屋氏3頁。新命名。
'Tanikaze'	谷風	comptoniana	Horikawa	2009	20: 15 (8)		(A famous Sumo wrestler) 名橫綱。
'Tarantula'	タランチュラ	?	Nishi	2007	18: 3 (3)		(Spider)
'Tenhō'	天和	beukmanii hyb.	Kawamoto/Nishi	2005	14: 2 (3)		(A super score of mahjong)
'Ten-no-amishima'	天網島	bayeri-picta	Hayashi	2009	20: 13 (8)		(Famous Joruri story) 西氏「スターダスト」は販売名。
'Tiffany'	ティファニー	mutica-badia-splen.	Marx/Hayashi	2008	19: 16 (1)		
'Tsuchinoko'	つちのこ	comptoniana	Nishi	2009	20: 15 (9)	0.5.(0)	(Legendary snake)
'Tsukiakari'	月明かり	comptoniana hyb.	Hayashi	2001	6: 10 (5)	9: 5 (2)	(Moon light)
'Tsukikage'	月影	comptoniana hyb.	Hayashi	2001	6: 10 (3)	14.10(1)	(Moon Shadow)
'Tsurugi-no-mai'	剣の舞	vitris	Hayashi	2008	19: 8 (4)	14:16(1)	(Sword Dance)
Tsuyu-shimo Gr.	露霜	pygmaea	Ohkuwa	2006	15:10	4: 13 (5)	(Dew frost)堀川ピグマエアもこの一つ。
'Tutankhamen'	ツタンカーメン	retusa hyb.	Kawahigashi	2008	19: 5 (1)		(Leaf back female demon)
'Ura Hannya'	裏般若	'Ollasonii' hybrid ?	Hayakawa	2009	20: 13 (7)		(Leaf back female demon) (Back window comptoniana)
'Uramado Compto'	裏窓コンプト	comptoniana	Ohkuwa	2005	13: 2 (5)		(back window comptoniana)
Vivaldi Group	ビバルディ ホワイトシルバー	<i>retusa</i> hyb. <i>aokiae</i> hyb.	Ohkubo Oikawa	1999	17: 9 (5) 2: 21		Temporary name of 'Pearl Pikuta'
White Silver				2005			販売名。堀川「白夢殿」と同一か? Trade name.
'White wimii'	ホワイトウイミー	<i>pygmaea</i> hyb.	Tsuruoka Nishi	2005	14: 15 (8) 13: 15 (2)		御津姫と同一説あり。Same to 'Mitohime'?
'White Wolf' 'Wimidens-A'	ホワイトウルフ	<i>splendens</i> hyb. Bev's Wonder Gr.	Bob Kent	2005	11: 2 (1)		世海海姫と同一記のり。Same to Mitchime: サンライズの仮名。Temporary name for 'Sunrise'
Wimidens-A Wimidens-B'	ウイミデンスーA ウイミデンスーB	Bev's Wonder Gr.	Bob Kent	2004	11: 2 (2)		サンセットの仮名。Temporary name for 'Sunset'
'Yama-arashi'	リイミナンス—B 山嵐	multifolia hyb.?	Sanekata	2004	16: 3 (4)		(Porcupine)
I GILLO OL OLO CIL	山形	celadonis (pygmaea)	Yamagata	2000	20: 9	8: 5 (5)	(Name of Breeder) ブルーピグマエア実生。新命名。
	大和錦	splendens	Hayashi	2003	17: 5 (6)	0.0 (0)	(Japanese name of <i>Echeveria purpusorum</i>)
'Yamagata'	夜想の森	retusa hyb.	Ohkuwa	2007	17:8(3)		(Night reflection of forest)
'Yamagata' 'Yamato-nishíki'	ITY ACTUATE		Ohkubo	2007			(March)
' <mark>Yamagata'</mark> 'Yamato-nishíki' 'Yasō-no-Mori'		tricolor hub		2000	10. 5 (0)		(marsh)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi'	弥生	tricolor hyb.		2006	15.10	5.10(10)	掲載後の命名。 交配種 (Yavoi = March)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi' 'Yayoi Nishiki'	弥生 弥生錦	tricolor hyb.	Ohkubo	2006	15: 10	5: 10 (10)	掲載後の命名。交配種 (Yayoi = March) (Name of Breeder)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi' 'Yayoi Nishiki' 'Yoshiike'	弥生 弥生錦 吉池	tricolor hyb. splendens	Ohkubo Yoshiike	2007	17: 4 (1)	5: 10 (10)	(Name of Breeder)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi' 'Yayoi Nishiki' 'Yoshiike' 'Yuki Usagi'	弥生 弥生錦 吉池 雪うさぎ	<i>tricolor</i> hyb. <i>splendens</i> Yumedono' hyb.	Ohkubo Yoshiike Tsuruoka	2007 2003	17: 4 (1) 9: 15 (2)	5: 10 (10)	(Name of Breeder) 毛ガニx夢殿?(Snow rabbit)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi 'Yayoi Nishiki' 'Yoshiike' 'Yuki Usagi' 'Yuki Usagi'	弥生 弥生錦 吉池 雪うさぎ 雪影	<i>tricolor</i> hyb. <i>splendens</i> Yumedono' hyb. <i>comptoniana</i> hyb.	Ohkubo Yoshiike Tsuruoka Banno-Harada	2007 2003 2009	17: 4 (1) 9: 15 (2) 20: 15 (11)	5: 10 (10)	(Name of Breeder)
'Yamagata' 'Yamato-nishiki' 'Yasō-no-Mori' 'Yayoi' 'Yayoi Nishiki' 'Yoshiike' 'Yuki Usagi'	弥生 弥生錦 吉池 雪うさぎ	<i>tricolor</i> hyb. <i>splendens</i> Yumedono' hyb.	Ohkubo Yoshiike Tsuruoka	2007 2003	17: 4 (1) 9: 15 (2)	5: 10 (10)	(Name of Breeder) 毛ガニx夢殿?(Snow rabbit)

Table 1-B-1 Truncata (-maughanii) group 玉扇 (-万象) グループ

AbageNonetNonetNonetNo99000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000<	Table 1-B-1 Trunc	ata (-maughani	i)group 玉扇(-	万象)クルーフ	7			
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AmatanuRestRest/restSouth South So	'Akakage'	赤影	truncata	Harada	2001	5: 5 (3)		(Red shadow)
Jack-ageProvideJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetalJonetal	'Aka-murasaki'	赤紫	maughanii	Sanekata	2004	11:6 (4)		(Reddish purple)
Areaion (Mar)7.927-76NoncoldNoncold20019.2.00NoncoldSampa ConcolAtabia8.1.02Noncold1.9.1.001.9.1.001.0.1.001.0.1.001.0.1.00Atabia8.1.02Noncold1.9.1.001.9.1.001.9.1.001.0.1.001.0.1.00Atabia8.0.0Noncold1.9.1.001.9.1.001.9.1.011.0.1.001.0.1.00Atabia1.9.0.01.9.2.001.9.2.001.9.2.001.0.1.011.0.1.011.0.1.01Distance (Marcia1.9.0.01.9.0.001.9.2.001.9.2.001.0.1.011.0.1.011.0.1.01Distance (Marcia1.9.0.01.9.0.001.9.0.01.9.0.01.0.1.011.0.1.011.0.1.01Distance (Marcia1.9.0.01.9.0.001.9.0.01.9.0.01.0.0.01.0.0.01.0.0.01.0.0.0Distance (Marcia1.9.0.0.01.9.0.001.9.0.01.9.0.01.9.0.01.0.0.01.0.0.01.0.0.01.0.0.0Distance (Marcia1.9.0.0.01.9.0.0.01.9.0.01.9.0.01.9.0.01.9.0.01.9.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.01.0.0.0.01.0.0.0.01.0.0.0.01.0.0.0.0	'Amaterasu'	天照	maughanii	Sakai S,	1998	1: 20 (2)		(A mythical emperor of Japan)
AreaiResultStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureSt	'Aoi-kage'	青い影	truncata	Sanekata	2001	5: 5 (1)		(Blue shadow)
AreaiResultStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureStructureSt	'Arabian Night'	アラビアンナイト	truncata	Fukuya	2008	19: 2 (2)		Seiryü Group
AnolorRatemeghaniforbase2001010(Lapanes of all o	'Araiso'	and the second se	truncata	Sanekata	2000	4: 16 (3)	5; 5 (5), 9; 4 (2)	(Rough shore) 写楽系 Sharaku Group
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TS-1 アイエスワン truncata Inai 1998 1: 20 (3) 今井実生一1.1Slit [BJJ, G& Temporary name Tahi Raidon' 石井電電 mughanii Ithi 1998 1: 6 (Ishiii's lightning) Tahi Raidon' 磁波 mughanii Sanekata 2002 8: 4 (5) JJ-1' ジェイシェイー sanekata 2007 17: 2 (5) Temporary name for 'Ginryoku' [BBJ JD/G&	'Ina Bauer'	イナバウワー	truncata	Fukuya/Nishi	2006	16:2 (6)		
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ジムー1' ジェイジェイー1 sanakata' 2007 17: 2 (5) Temporary name for 'Ginrycku' 「銀森Jの仮名。 (Rope marking blue shadow) 'Jumbo' ジャンポ truncata Nagaoka 6: 16 (3) (Rope marking blue shadow) 'Kaio-sai' 海王星 truncata Sanekata 198 1: 18 (Neptune) 須古星実生 'Sukobosh' seedling. 'Kaio-sai' 菊花石 maughanii Kawahigashi 2002 8: 15 (1) 6: 2 (1), 7: 16 (2), 9: 4 (1) 業系。Murasaki Group (Mur stone) 'Kikaseki' 菊花石 maughanii Kaneko 2008 19: 2 (1) # 'Kikaseki' 菊花石 maughanii Kaneko 2000 4: 12 (1) (Red & white whiskers) 'Kionon'i 君主 truncata Ohkubo 2000 4: 12 (1) (Red & white whiskers) 'Kohau-ling' 紅白斑 truncata Ohkubo 2007 18: 16 (1) (Large 'nazuma') 'Kyoho' 巨鴨 maughanii Yamanoto 2007 18: 3 (3) (Big Bird Shirotae Group 'Lamia' ラミア truncata Fukuya 2008			20 0020					
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'Millenium'ミレニアムmaughaniiTsukahara20003: 15: 15 (1)龍紋(イゲ夕5番) x 春雷? 'Ryümon' x 'Shunrai'?'ML-1 Nishiki'エムエル-1錦maughaniiNishi20003: 15 (2)Temporary name'Myōjō'明星maughaniiYamamoto200718: 4 (4)(Venus) Shirotae Group'Nishiaki-kuro'西明黒truncataNishiaki20003: 15 (5)(Nishiaki's black)'Õ kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Õ Murasaki'大柴maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Õ Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'Õirase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Õkubo Burukon'大久保ブルコンtruncataNishi20003: 15 (3)(Remembrance)'Pegasus'不ガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	'Miho'		maughanii hyb.	Miss Miho				(Name of Breeder)
'ML-1 Nishiki'エムエル-1錦maughaniiNishi2003: 15 (2)Temporary name'Myōjō'明星maughaniiYamamoto200718: 4 (4)(Venus) Shirotae Group'Nishiaki-kuro'西明黒truncataNishiaki20003: 15 (5)(Nishiaki's black)'Õ kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Õ Murasaki'大柴maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Õ Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'ÕIrase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Õkubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Õmokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	'Millenario'	ミレナリオ	maughanii	Sanekata	2002	7:5(1)		
'Myojo'明星maughaniiYamamoto200718: 4 (4)(Venus) Shirotae Group'Nishiaki-kuro'西明黒truncataNishiaki20003: 15 (5)(Nishiaki's black)'Õ kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Õ Murasaki'大柴maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Õ Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'ÕIrase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Õkubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Omokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	'Millenium'	ミレニアム	maughanii	Tsukahara	2000	3: 1	5: 15 (1)	龍紋(イゲタ5番) x 春雷? 'Ryūmon' x 'Shunrai'?
'Nishiaki-kuro'西明黒truncataNishiaki20003: 15 (5)(Nishiaki's black)'Ö kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Ö Murasaki'大紫maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Ö Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'Oirase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Ökubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Omokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	'ML-1 Nishiki'	エムエル-1錦	maughanii	Nishi	2000	3: 15 (2)		Temporary name
'Nishiaki-kuro'西明黒truncataNishiaki20003: 15 (5)(Nishiaki's black)'Ö kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Ö Murasaki'大紫maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Ö Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'Oirase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Ökubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Omokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	'Myōjō'		maughanii	Yamamoto	2007	18: 4 (4)		(Venus) Shirotae Group
'Ò kagami'大鏡maughaniiSanekata20027: 16 (3)(Large mirror)'Ô Murasaki'大紫maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Ô Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'Ô rase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Ôurase'火久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Ômokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	-				2000			(Nishiaki's black)
'Ô Murasaki'大紫maughaniiOkano20015: 5 (2)紫系。Murasaki Group (Large purple)'Ô Shiragiku'大白菊maughaniiSanekata20004: 16 (2)(Large white mum)'Oirase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Ôkubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Omokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。								
'Ô Shiragiku'大白菊maughaniiSanekata2004: 16 (2)(Large white mum)'Oirase'奥入瀬maughaniiYamamoto200718: 5 (5)(A famous gentle stream)'Ôkubo Burukon'大久保ブルコンtruncataOhkubo20004: 12 (6)Burukon Group'Omokage'面影truncataNishi20003: 15 (3)(Remembrance)'Pegasus'ベガサスtruncataFukuya200819: 2 (5)Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。	-							
'Oirase' 奥入瀬 maughanii Yamamoto 2007 18: 5 (5) (A famous gentle stream) 'Õkubo Burukon' 大久保ブルコン truncata Ohkubo 2000 4: 12 (6) Burukon Group 'Omokage' 面影 truncata Nishi 2000 3: 15 (3) (Remembrance) 'Pegasus' ペガサス truncata Fukuya 2008 19: 2 (5) Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。								
'Ōkubo Burukon' 大久保ブルコン truncata Ohkubo 2000 4: 12 (6) Burukon Group 'Omokage' 面影 truncata Nishi 2000 3: 15 (3) (Remembrance) 'Pegasus' ペガサス truncata Fukuya 2008 19: 2 (5) Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。								
'Omokage' 面影 truncata Nishi 2000 3: 15 (3) (Remembrance) 'Pegasus' ペガサス truncata Fukuya 2008 19: 2 (5) Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。								
'Pegasus' ペガサス <i>truncata</i> Fukuya 2008 19:2 (5) Ökubo No. 1 Gr./Seiryū Gr. 青竜系にも属する。								
*: Some species names are <i>nomen nudum</i> .	regasus	~				19:2 (5)		UKUBU NO. Ur./Selryu Gr. 百电杀にも腐 9 る。

Table 1-B-2. Truncata group (Continued) 玉扇 (-万象)グループ

万象)グルーフ				
Breeder/Author			Other issues	Comments (meaning)
Yamamoto	to 200	7 18: 5 (3)		(Ptarmigan) Murasaki Group
Tsukahara	ra 200	0 3: 16 (2)	2: 2 (2)	七色仮面は不採用の提案名
Nishi	200	0 3: 15 (1)		(Ice floe)
Kawahigashi	ashi 2004	4 12: 2 (2)		(Stream-like marking) 龍紋万象と区別のため改名。
?	200	7 18: 7 (4)		(Meteor)
Kawahigashi	ashi 2003	2 7: 16 (1)		(Meteor shower)
Sakai	200	1 5: 15 (3)		(Sakai's special truncata) Temporary name. 仮名。
Sanekata	a 199	9 2:1 (4)		
Sanekata	a 200	0 4: 13 (4)		(Sanekata's odd marking)
Nagaoka	200	1 6: 2 (2)		紫系。Murasaki Group トリコロルは無効名。
Ohkubo	200	9 20: 11	8: 5 (2)	(Celadon Lens) 超厚窓コンゲスタ。育成者新命名。
Kaneko	200	4 11: 15 (6)		(Blue Dragon) Seiryū Group
Kaneko	200	4 11:6(2)		
Katsuoka	a 1999	9 2: 2 (4)	3: 16 (1)	(A famous Ukiyoe painter) Sharaku Group
Nagaoka	200	2 7:1		紫系。Murasaki Group (Purple lightning)
Fukuya	200	8 19:2 (3)		平重盛(A person of Taira family)
Tsukahara	ra 200	1 5: 15 (2)		(Mirage)
Kawahigashi	ashi 2003	2 7: 16 (2)		Temporary name for 'Kikkaseki' 菊花石の仮名。
Yamamoto	to 200	0 4:1	2: 2 (1)	(White dress) 2: 2は育成途中 2:2 is young stage.
Yamamoto	to 200	0 3: 2 (1)	18: 4 (6)	(Lion God) 'Shirotae' family
Fukuya	200	B 19: 3 (3)		
Fukuya	200	B 19: 3 (4)		(A man of Japanese myth)
Sanekata	a 199	8 1:1		(Big treasure)
Nishi	200	8 19:4 (2)		(Sun God)
Yamamoto	to 200	7 18: 5 (1)		(Red crowned crane) Murasaki Group
Sanekata	a 2004	4 12: 2 (1)		(Universe)
Kaneko	200	9 20: 12 (2)		(Sky Thunder)
Tsukahara	ra 200	1 6: 1		(A paradise)
Fukuya	200	B 19: 2 (6)		(Moon God of Japan) Ökubo No. 1 Gr.
Sanekata	a 2004	4 12: 1		(An Ukiyoe painter) 写楽系 Sharaku Group
Yamamoto	to 200	0 4:4		Temporary name for 'Yōten-henmoku'
Yamamoto	to 200	7 18: 4 (5)	4: 4	(Odd markings)
Tsukahara	ra 199	9 2:6(2)	5: 5 (6)	(Snow country)
Yamamoto	to 200	7 18: 5 (6)		(Sunset crane) オーロラ実生 "Aurora' seedling
Sanekata	200	1 5: 16 (2)	19: 3 (1)	写楽系 Sharaku Group 意味:西風
Sane	kata		kata 2001 5: 16 (2)	kata 2001 5: 16 (2) 19: 3 (1)

Table 1-C-1. Hard leaf group 硬葉グループ

Cultivar/Group name	品種名/グループ	Species*/Group	Breeder/Author	Year	No.: p. (pic.)	Other issues	Comments (meaning)
'Alligator'	アリゲーター	maxima hyb.	Nishi	2006	15: 2 (5)		
'Aranami'	荒波	koelmanistriata	Nishi	2007	18: 3 (6)		(Rough waves)
'Chō-kyodai Donut'	超巨大ドーナツ	maxima	Horikawa	2000	4: 15 (3)		異名(synonym):LSD (Large Super Donut)
'Cuban Donut'	吸盤ドーナツ	maxima	Ohkuwa	2000	4: 13 (6)		"Cuban" is a pun of octopus sucker.
'Daiginga'	大銀河	maxima x koelman.	Marx/Kobayashi	2009	20: 11	8: 12 (3)	名前の初出はISIJ。 First publication is in ISIJ.
'G-1 Star'	ジーワンスター	maxima hyb.	Tsuruoka	2003	9: 15 (1)		
'Ginkaku'	銀角	(Ast.) bullulata	Hirao/Hayashi	2005	14: 3 (5)		From S.A. Natural hybrid? (Silver edge)
'Gintaikyō'	銀帯橋	coriacea hyb.	Hirose	2005	13: 3 (6)		錦帯橋兄弟(Silver 'Kintaikyō')
'Hakusen'	白線キンギアナ	kingiana	Hayashi	2003	10: 3 (5)		金折鶴の仮名。Temporary name of 'Kin Orizuru'
'Jashūmon'	邪宗門	koelmani, hyb.	Kawahigashi	2009	20: 24 (1)		(Heathendom) 錦帯橋姉妹。
'Jigokumon'	地獄門	koelmani. hyb.	Hirose	2006	15: 10	7:6(3)	(Hell's gate)
Jurassic Park'	ジュラシックパーク	maxima hyb.	Bob Kent	2002	7: 5 (5)		
'Kin Orizuru'	金折鶴	kingiana	Hayashi	2009	20: 11	10: 3 (5)	(Golden paper crane) Old name: 'Hakusen' 新命名。
'Kintaikyō'	錦帯橋	coriacea hyb.	Hirose	2001	6: 10 (1)		(A famous bridge in breeder's place)
'Kintaikyō-B'	錦帯橋一B	coriacea hyb.	Kawahigashi	2005	13: 3 (5)		おそらく紫錦帯と同じ。仮名。Temporary name.
'Lotus'	ロータス	marginata	Harada	2005	13: 2 (6)		
'Manta'	マンタ	koelmaniorum	Hayashi/Harada	2009	20: 24 (3)		(Manta ray)コエル最ダルマ型
'Murasaki Kintai'	紫錦帯	coriacea hyb.	Tsuchiya	2009	20: 24 (2)		錦帯橋枝変わり? 常時明紫色。
'Niōmon'	仁王門	koelmani. hyb.	Kawahigashi	2006	16: 3 (5)		(A famous red gate)
'Onigawara' (A)	鬼瓦 (A)	<i>nigra</i> hyb.	Oikawa	2001	6: 10 (2)	15: 15 (1)	(Gargoyle)
'Onigawara-B'	鬼瓦B	nigra hyb.	Oikawa	2006	15: 15 (2)		Another clone of 'Onigawara' 別クローン
'Paper crane'	折り鶴	carinata (marginata)	Ryutanji	2000	4: 13 (2)		'Paper crane' is translation. An error. 白折鶴の誤り
'Rashōmon'	羅生門	mcmurtryi hyb.	Hirose	2006	15: 10	7: 5 (3)	A famous gate of Kyoto.
'Shiro Orizuru'	白折鶴	marginata	Ryutanji	2000	4: 13 (2)		(White paper crane) 'Paper crane' is an error.
'Sijima'	シジマ	maxima hyb.	Ohkuwa	2001	5: 6 (3)		(Sound of silence) H. maxima x H. zenigata
Subaru Group	スバル	zenigata hyb.	Ohkuwa	2001	5:6(1)		(Pleiades) H. marginata x H. zenigata
Super Shimofuri'	スーパー霜降り	attenuata	Nishi	2005	14: 3 (6)		frosted form of 'Wide band Jyûni-no-maki'
'Tengai'	天涯	maxima-bruynsii	Ohkuwa	2001	6; 8		(Lonely)
Tenshi-no-namida'	天使の涙	maxima hyb.	Bob Kent	2002	7: 5 (6)		(Tear of Angel)

Gasteria 'Perfection' H. Mays.



This cultivar was named *Gasteria* 'Perfectus' D. Cumming ex R. Scott in Haworthiad 12(2)69.

Gordon Rowley kindly pointed out that 'Perfectus' is a Latin word. As Article 19.13 of the International Code of Nomenclature for Cultivated Plants prohibits Latin words being used for cultivar epithets, except in defined circumstances, which do not apply in this case, Perfectus cannot be used as a cultivar name.

This cultivar is, therefore, renamed *Gasteria* 'Perfection'.

Parentage. *Gasteria* (*armstrongii* cv. ?) x *G*.. 'Old Man Silver'.

Comments. Ascending, pale, silver-green leaves with distinct dark green leaf edges; short, apical point sharp. Scattered greyish white spots and tubercles with tubercles lining the leaf edges. Fig. 150. Offsets freely.

Propagation. Offsets.

Because of lack of space in this issue the index for Alsterworthia International Volume 9 and full details of Bruce Bayer's Haworthia Update 5 will be published in the March 2010 journal.

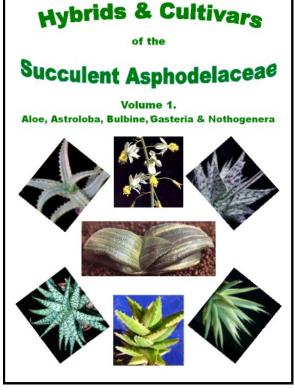
At the time of printing this journal an additional article for Update 5 was awaited for inclusion. At the moment Update 5 has nearly 200 A4 pages with many, many photographs.

Update 5 should be available when you receive this journal. If you cannot wait till March 2009 please e-mail me for details and prices - hmays@freenetname.co.uk

The Cultivar Project.

This project is concerned with collecting worldwide cultivar names, photographs for them, tracing the publications which originally published the names, verify that the published names are in accordance with the International Code of Nomenclature for Cultivated Plants, eliminating duplicate names, validly publishing others as necessary and from time to time publishing a series of soft cover books illustrating and describing cultivars with names established under the ICNCP. Progress is such that we can now publish the first volume. The second will be published in 2010.

Hybrids & Cultivars of the Succulent Asphodelaceae Volume 1 covers *Aloe*, *Astroloba*, *Bulbine*, *Gasteria* and their Nothogenera (hybrid genera). It contains a substantial number of cultivars for which the original publications have been traced. It also includes a number of old cultivars which are still in cultivation. For these, descriptions, brief or otherwise, have been traced back for a number of years, but not necessarily to the original publications. Nevertheless, as these names have been in use for many years the odds are that they are established under the ICNCP by descriptions in articles. Published descriptive material for other cultivars still in circulation has not been traced though the names crop up in dealers lists, in articles etc. These too are likely to be established names. If they are not the descriptions in Hybrids & Cultivars of the Succulent Asphodelaceae Vol.1 should establish them.



Producing books to include solely cultivars for which original publication material, which satisfies the ICNCP, has been traced has never been done and is not possible at this stage. More time needs to elapse so that more people can

become conversant with the problems and input more information. In the meantime, we are able to publish the first volume with a large number of cultivar with references which established the names under the ICNCP, with cultivars for which establishment of the names seems certain notwithstanding that original publications have not been traced, though other more recent have, and with hybrids published under the International Code of Botanical Nomenclature.

Haworthia cultivars are the subject of volume 2. It already has more than 100 A4 pages but needs some refinement. It will be published in 2010. Originally it was intended to include haworthias in volume 1, but the advantages of publishing haworthias later as a separate volume allows the earlier publication of the first and gives readers an opportunity to comment on our first efforts and make suggestions for the next.

Hybrids & Cultivars of the Succulent Asphodelaceae Volume 1

80 A4 pages - gloss paper with card cover.

Over 200 colour photographs.

Recommended retail price is $\pounds 29.50 + postage$.

Alsterworthia member's price (one per member only) is £19.00 + postage. Postage Europe £3.00, rest of the world £4.50 This publication may be ordered from bookdealers or in case of difficulty from Harry Mays. Please note that the Alsterworthia International member's price is obtainable only form Harry Mays, NOT from bookdealers.

Payments may be made via PayPal but please add 4% to cover deductions made by PayPal.

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Validly Published Nothogenus Names.	
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Please send additional cultivar information - names, photos, references for original publications for cultivar names, etc - and your comments and suggestions to:

Harry Mays, Woodsleigh, Moss Lane, St. Michaels on Wyre, Preston, PR3 0TY, UK Email: hmays@freenetname.co.uk

SIX NEW INDIAN CULTIVARS OF THE ASPHODELACEAE. SOUMEN ADITYA.

P.O- MAJU. VILL- MAJU, DIST- HOWRAH-711414.,WEST BENGAL, INDIA. E-MAIL- soumen ad001@yahoo.co.in.

It is well known that the Japanese are famous for their great enthusiasm for variegated and other types of succulent cultivars, which have remarkable features incomparable to those usually found in nature.

Indian, on the other hand, is not known to show interest in such plants, but I began to hybridize *Aloe*, *Haworthia*, and *Gasteria* at least seven years ago. My first collected cultivar plant was *Haworthia* 'Mantellii', which was given to me by my friend Mr. S.L. GUPTA. Then I saw for the first time in Alsterworthia International {July and November 2003} Mr. H.C.K. Mak's cultivar articles with fine photographs of wonderful cultivars. I am glad to say that these two article inspired me to create cultivars in India. I am not blessed with scientific knowledge, but here I describe some selected cultivars, which I have created. All are F1 hybrids. This article attempts to share some of my young creations. I hope they will appeal to you.

Fig. 1. *Haworthia* **'Snehanuv' S. Aditya.** [SA 02-001] *H. habdomadis* v. *inconfluens* $\stackrel{\frown}{}$ x (*H. bolusii* v. *blackbeardiana* x *H. decipiense*) $\stackrel{\frown}{}$

This is my first cultivar. I have given it my parents' name as they inspired me to pursue this hobby. The rosette is just like a lotus. The very big, stubby leaves are normally a paler yellowish green with large chalky white markings on both leaf surfaces, apex acuminate, with small teeth on the margins In strong light the leaves sometime develop a pinkish flush. The rosette can grow up to 10cm in diameter and up to 7cm in height. Flowering time Feb-Mar.

Fig. 2. *Haworthia* 'Shankar' S. Aditya. [SA 05-018] *H. springbokvlakensis* Υ (*H. cooperi* v. *pillifera* x *H. truncata* v. *maughanii*) \Im

This is a very wonderful cultivar, combining features of *Haworthia springbokvlakensis* with a very large, solitary *H. truncata* v. *maughanii*. Leaves chocolate coloured, windows translucent blue, leaf end short-retuse with a slightly pointed apex. It can grow to 6cm across and 4cm in height. Very slow growing and has not offset to date. Leaf propagation is very easy. In the summer months the plant body may turn a deeper chocolate-reddish-brown colour. Flowering time is early in Feb. It is now four years old.

Fig. 3. *Haworthia* 'Maju-E-Mallika' S. Aditya [SA 05-0031] (*H. emelyae* v. *comptoniana* x *H. springbokvlakensis*) x (*H. retusa* v. *multilineata* x *H. bayeri*)

This cultivar is the prettiest one in my garden. It bears the name of my wife, who helped me to develop all the cultivars. The leaves are very attractive, upright with long, retuse ends ending in a very sharp apex. Leaves are nonglossy green all the year round and bear dark-green longitudinal lines in the retuse ends which are rarely linked by side branches. There are also white flecks some



of which amalgamate to form short, latitudinal lines. Leaf margins bear many short, green teeth. It can grow about 8cm across and 4.5cm in height. It is now 4 years old.

Fig. 4. *Haworthia* 'VIVI-DR' S. Aditya. [SA- 07-0052] (*H. parksiana* x *H. heidelbergensis*) $\stackrel{\frown}{}$ x *H. emelyae* v. *multifolia* $\stackrel{\frown}{}$

This cultivar name was provided by my good friends in the U.K, Mr. & Mrs Rowland. Leaves recurved with acuminate apex, very hard, small; marginal teeth dark green, sharp; windowed leaf ends barely retuse. A few greenish white lines extend from near the leaf base into the windows. It can grow to 3cm across and 1.2cm in height. It is now three years old. Peduncle very short to 5-8cm long. Plants mostly solitary.

Front cover & fig. 5. *Haworthia* 'Sneha-Neer'. S. Aditya [SA -22-1121] [*H. maughanii* \bigcirc x (*H. emelyae* v. *major* x *H. springbokvlakensis*) \bigcirc

I cannot compare my *H. maughanii* cultivar with the Japanese, but mine has virgin beauty! The windowed leaf ends are sunken in the centre and crinkled round the edges. The crinkling forms ridges down the leaf sides with teeth. The entire leaf is covered with scattered white spot ending in a prickle. White lines of varying thickness run from near the leaf centre to the leaf edge linking either completely or partly to form a (partial) white rim. Leaves are a very dark glossy green throughout the year. The roots are not thick. This cultivar is of easy growth, but slow. It pups very easy. The plant illustrated is now five years old. Diameter 5-7cm, height 4cm. It flowers throughout the year.

Figs. 6a,b. ×*Gasteraloe* 'Manik-Anita'. S. Aditya [SA-50-1111]

 $[(G. carinata v. verrucosa x G. Batesiana) \stackrel{\bigcirc}{\searrow} x (Aloe deltoideodonta x Aloe descoingsi) \stackrel{\bigcirc}{\bigcirc}$

This is a very handsome plant. Leaves hard, boat shaped; margins with sharp, short, whitish teeth; terminal point sharp; surface green, but raised whitish spots arranged in variable latitudinal bands on both surfaces provide an overall whitish appearance. New leaves and the peduncle



are initially glaucesent. Peduncle bifurcate and very long up to 2 feet. Flowering time early in May. The plant in the photograph is now 10cm across and 8cm in height.

All photographs are by the author.

ACKNOWLEDGMENTS. Thanks are due to Mr. H. Mays for encouraging me to write this article and my family for their precious support and advice.





