

Some things never change. Here we are again soliciting articles for *CrossWords*. We want to inform and to present hybridizing material, but this newsletter is intended to be a group participation effort. Ideally, a healthy balance of articles for the beginning and more advanced hybridizer should appear in each issue. If something you read in this issue intrigues, infuriates or simply puzzles -- tell us. Your efforts, successes and failures are of interest but we'll never know unless you write.

David Zaitlin's new address will be printed in the next issue of *CrossWords*. Meanwhile send any requests or seed orders to Anne Crowley.

This is your last issue of *CrossWords* unless you send in your \$5.00 renewal to Meg Stephenson. We hope you will be joining us in 1981 and that the New Year is a happy and fruitful one.

We were saddened to learn of the death of Dr. Harold E. Moore who was Professor of Botany and Director of the Bailey Hortorium at Cornell University. Although his principal interest was the study of palms, he did considerable work with gesneriads resulting in the many Cornell hybrids. Dr. Moore was the author of the highly prized *African Violets, Gloxinias, and their relatives*, published in 1957 and still sought by gesneriad enthusiasts.

Anne Crowley
Ron Myhr

TABLE OF CONTENTS

Seed Exchange	2	Report	4
		by Georgie Bull	
Achimenes Species <i>Baum.</i> and	3	Gesneriaceae Chromosome Numbers	6
<i>Giesbrechtii</i> Challenged		II. Beccarinda to Columnea	
by Paul Arnold		by Laurence E. Skog	
Report on <i>Sinningia</i> 'Silhouette'	4		
by Howard Burns			

SEED EXCHANGE

David Zaitlin
Tucson, AZ

There are quite a few varied items this time around.

- (1) *Sinningia hirsuta*
- (2) *S.* mixed 'Rex' hybrids
- (3) *S.* 'Pink Eumorpha' X *S. canescens* selfed
- (4) *S.* 'George Kalmbacher' hybrid sibbed
(see listing in *CrossWords* 4(1) for parent)
- (5) (*S. eumorpha* X *S.* 'Pink Eumorpha') X *S. canescens*
(female parent has pink corolla with purple stripes across a white limb)

From Wm. Guyett:

- (1) *Sinningia speciosa* dwarf, flower white with red lip

From Howard Burns:

- (1) *Chirita elphinstonia*
- (2) *Sinningia* 'Krishna'
- (3) *S. pusilla* and *S.* 'White Sprite' (mixed)
- (4) *S.* 'Cupid's Doll'
- (5) *S.* MB-1-6 (miniature)
- (6) *S. speciosa* 'Ho-Ho'

From Georgina Bull:

- (1) self of *Saintpaulia* 'Happy Trails'
- (2) mixed *Saintpaulia* seed
- (3) *Sinningia* 'Snowflake' X *S. pusilla* F₂ seed
- (4) *Gloxinia* 'Damask' - seed of an F₂ of *G. sylvatica* X *G. gymnostoma*. Plant is described as having a flower that is rose red in color with navy dots.
- (5) selfed seed of *Sinningia* 'Peaches'.
'Peaches' is an F₂ from the crossing of the *cardinalis* variants 'Innocent' X 'George Kalmbacher'. It naturally has the typical *cardinalis* growth habit but has "peachy-pink" blooms. (This sounds very much like *S.* 'Pink Rechstein' that was offered by Buell's last year.)

All seed listed may be ordered from David. Much of the seed listed previously is still available.

PLEASE NOTE: David Zaitlin is in the process of moving to California. He will continue to oversee the SEED EXCHANGE but until the move is complete, please send your requests and seed to Anne Crowley. They will be forwarded promptly.

SUGGESTIONS

Collect pollen from *Nautilocalyx* when the pistil is barely visible, refrigerating it until the pistil has fully extended.

If the anthers of *Streptocarpus* do not open to release pollen, gently break them apart to harvest.

ACHIMENES SPECIES BAUM. AND GHIESBRECHTII CHALLENGED

Paul Arnold
Binghamton, NY

Laurence E. Skog's invaluable compilation from the available literature of gesneriad chromosome counts (*CrossWords* 4(3): 7-4, Sept. 1980) contains an imputed *Achimenes* species, *baum.* var. *coerulea*. He found it in P. Eberle's 1956 paper, "Cytological Investigation of Gesneriaceae." The author of the binomial is given as "Sean." a not readily identifiable abbreviation which Eberle also cites as the authority for *Achimenes mexicana* var. *coerulea*, listed later in Skog's compilation. Two questions arise: Who is "Sean."? and what *achimenes* species is represented by the abbreviation "baum."?

I would suggest that Eberle's "Sean." is a misspelling of "Seem." for the German botanist Berthold Seemann and Eberle's "species" is Edouard Regel's 1848 Swiss artificial hybrid *Achimenes* (*Trevirania*) '*Baumannii*' (*A. erecta* X *A. grandiflora*). These assumptions are based as follows.

Many hybrids bear names in Latin form and such names are legitimate under the Cultivated Plant Code, provided they have been validly published before the first of January 1959. Regel reported the hybrid *achimenes* '*Baumannii*' in *Flora*, 32: 182 1849 (in German) and listed it among his many *Achimenes* (*Trevirania*) hybrids in *Gartenflora*, Vol. 1, 1852. Moore & Ayres published in *Gardeners' Magazine of Botany*, 1850, a picture of '*Baumannii*' and an excellent English description; the limb "rose purple, paler beneath, the eye yellow, slightly spotted with brown."

Our earliest record of the blue flower form of '*Baumannii*' in cultivation was in Louis Van Houtte's 1878 catalogue, where it persisted until 1880. (Van Houtte had listed a '*Baumannii Hirsuta Caerulea*' once only, in 1856.) We have no other listings by dealers of '*Baumannii Caerulea*'. However, '*Baumannii*' was a popular *achimenes* name among European growers in the 1850's. The *Achimenes* Register--1969 lists '*Baumannii Oculata*' and '*Baumannii Pallida*' in Van Houtte's 1849 catalogue and no less than eight different versions of the name '*Baumannii*' in the 1856 catalogues of British and Continental growers.

The clue to "Sean." = Seem. = Berthold Seemann lies in Eberle's also listing among his gesneriad chromosome counts the species *Achimenes mexicana* var. *coerulea* Sean. (sic). Berthold Seemann was indubitably the author of the species *mexicana* in Curtis' Botanical Magazine, 1853 (as *Scheeria mexicana*) before Bentham and J. D. Hooker transferred that species to *Achimenes*. I have not seen Seemann's account in Bot. Mag., but Hanstein, in *Linnaea* 27: 714 1854 indicates that Seemann described two forms of *mexicana*; (1) var. *purpurea* with purplish stems and leaf nerves, the corolla purple, and (2) var. *caerulescens* with green stems and uniformly green leaves, the corolla sky blue. He described the type species as intermediate in corolla color: purple blue.

Another Eberle *achimenes* "species" that Larry Skog might wish to omit from future printings of gesneriad species chromosome counts is *A. ghiesbreghtii* Lindley (?). I do not know if the question mark indicates Eberle's uncertainty of identification or Skog's doubts, but Lindley's '*Ghiesbreghtii*' was an 1848 English cultivar, according to his account in Jour. Royal Hort. Soc., 1850. Both *achimenes* cultivars '*Ghiesbreghtii*' and '*Baumannii*' have long been extinct, with neither one found in the trade in this century.

REPORT ON *SINNINGIA* 'SILHOUETTE'

Howard Burns
Greenfield, WI

It has been sometime since Peg Belanger was nice enough to send me the seed from her *S.* 'Silhouette', so I thought I would give you a progress report on how it has done under my growing conditions:

Light source - two 48" cool white fluorescent tubes
Humidity - varied, by the season, from 25% to 50%
Temperature - 65° to 80°
Soil - equal parts of Redi-earth, Vermiculite and Perlite watered when necessary with $\frac{1}{4}$ strength fertilizer mix
Seed received and planted - September 28, 1978
Seedlings noted - October 11, 1978
Ten seedlings developing - November 11, 1978
Ten seedlings to pots - December 15, 1978 (kept in 'sweater boxes')
Plantlets (Nine...lost one in January 1979) to open bench growing
First flower - May 1, 1979 - true and beautiful as per *CrossWords* 1:2
All flowers true and one setting seed May 28, 1979
Second plant bloomed - August 22, 1979 - true, too!
Five of original nine have survived some rather 'shoddy...over the summer vacation, etc.' treatment
And two more have buds coming.

I did plant the seed on July 22, 1979 and it germinated well and on September 22, 1979 I put the seedlings in a 'flat' - about 30 of them - I don't know how many I will keep of them due to space limitations.

REPORT

Georgie Bull
Regina, Sask.

Beginners Project (sounds like a song title)

S. 'Snowflake' X *S. pusilla*:

Results - F1's - many pale mauve, four white
- kept four very floriferous plants of pale mauve and none of the white as they would not self
- F2's - from #101-A and #101-B
- seeds were many, didn't count, far too many, planted two pots at different times, germination very good and almost 100% (one or two in each pot did not germinate)
- several plants with *S.* 'Star Eyes' look-alike corolla, slight difference in color

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Paul Arnold
Binghamton, NY

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- several plants with white *S. 'Star Eyes'* form (checked with *S. 'Snowflake'*, NOT like *S. 'Snowflake'*)
- some white flowered plants, just kept one that has a flush of pale mauve in a ring on the lower lobes
- several pale mauve plants, some with large flowers and a few with very, very small flowers - will see what the small flowered plants will do

Many plants with tattered and very irregular corolla, these have been tossed away. Also have a plant of *S. 'Star Eyes'* (Belanger) and will use this plant to duplicate any crosses with the look-alikes.

S. 'Star Eyes' look-alikes - #101-F2-1 and the white one numbered #101-F2-2. These two plants have been crossed with *S. hirsuta*, *S. sp. 'New Zealand'*, *S. 'Cindy-Ella'*, *S. 'Cupid's Doll'*.

Questions:

- 1) Re *Corytoplectus speciosus* - I cannot find any information here in all of the books and papers that we have. I need to know about this plant and also the chromosome count. Can anyone help? One plant is in bud.
- 2) I have a plant here called *S. 'Carol'*. It is a *cardinalis* type and has flowers that look like *S. 'George Kalmbacher'* but a creamy white and 3½ mm long. It seems to have much pollen but I have not used it in any hybrid efforts due to being uncertain of the proper name. Does anyone have any information?
- 3) Re *Streptocarpus 'Max Dekking'* - I have not been able to self or cross it so far but would like to attempt to do a graft cross (see Volume 1, Issue 2, Fall 1977, Page 10, #5). Are there any hidden perils re maintaining leaves in good condition until growth appears? Is this really a good way for someone to go about improving a hybrid. *S. 'Max Dekking'* is compact with short stemmed flowers, easily maintained in a four inch pot and a pretty color. *S. 'Max Dekking'* needs a better flowering habit, more flowers per bloom time. Each stem usually carries three flowers. Is this worth the effort when one cannot use chemical methods?

GESNERIACEAE CHROMOSOME NUMBERS II. Beccarinda to Columnea

Laurence E. Skog
Washington, DC

The first part of this series on the chromosome counts of the species of Gesneriaceae appeared in Crosswords, volume 4, number 3 (September 1980), pages 7-14. References to counts that appeared in the first part will not be repeated here or in later parts.

Chromosome counts are arranged in alphabetic order by genus and species. The number as given by the counter in the original publication appears in the middle two columns, n or $2n$. References to the publication of the numbers is given in the right hand column.

The names of the genera and species will be those currently in use, but the name of the plant under which the count first appeared will also be given with a cross reference to the current name of the species.

Typographical errors have been corrected where possible. Please inform the author of any errors or counts and publications that have been overlooked.

Genus, species, author	n	$2n$	References
BECCARINDA			
cordifolia (Anthony) B. L. Burtt		20	Ratter & Prentice 1964
BELLONIA			
spinosa Sw.	13		Lee 1966b
BESLERIA			
disgrega Morton	16		Wiehler 1972
lutea L.	16		Lee 1966a
BOEA			
hemsleyana B. L. Burtt as Boea sp. from Solomon Is.	16		Ratter & Milne 1970; Ratter 1975
herbacea C. B. Cl.		36	Ratter & Milne 1970
hygroscopica F. v. Muell.	8		Lee 1962a; Ratter 1963
kerrii Craib	17		Milne 1975

Genus, species, author	n=	2n=	References
BOEA (continued)			
lawesii (F. v. Muell.) H. O. Forbes	8	16	Ratter & Prentice 1967
magellanica Lam.	8		Ratter & Milne 1970
magellanica Lam.		16	Ratter & Prentice 1964
reticulata Barnett	9		Milne 1975
speluncarum B. L. Burtt as Boea sp. from Sarawak	16		Ratter & Prentice 1967; Ratter 1975
BRIGGSIA			
aurantiaca B. L. Burtt		34	Ratter 1963
musciicola (Diels) Craib		68	Ratter & Prentice 1964
CAPANEA			
grandiflora (Kunth) Decne. ex Planch. as Campanea oerstedtii (Kl.) Oerst.	13		Davidse 1970
oerstedtii (Kl.) Oerst. =Capanea grandiflora (Kunth) Decne. ex Planch.	13		Davidse 1970
CENTROSOLENIA			
decurrens Morton =Paradrymonia decurrens (Morton) Wiehl.	9		Lee 1964
CHIRITA			
anachoreta Hance		18	Ratter 1963
asperifolia (Bl.) B. L. Burtt	16	32	Ratter & Prentice 1967
asperifolia (Bl.) B. L. Burtt as Chirita blumei C. B. Cl.	14		Lee 1962a; Ratter 1975
bicornuta Hay. =Hemiboea bicornuta (Hay.) Ohwi	18		Hsu 1968
bimaculata D. Wood	17		Milne 1975
blumei C. B. Cl. =Chirita asperifolia (Bl.) B. L. Burtt	14		Lee 1962a

Genus, species, author	n=	2n=	References
CHIRITA (continued)			
caerulea R. Br.	9		Milne 1975
caliginosa C. B. Cl.	9		Ratter & Prentice 1967
hamosa R. Br.	17		Milne 1975
involucrata Craib	9		Milne 1975
lavandulacea Stapf		34	Rogers 1954; Ratter & Prentice 1964
lavandulacea Stapf	18		Sugiura 1938; Sugiura 1940
macrophylla Wall.	9	18	Ratter & Prentice 1967
micromusa B. L. Burtt	17		Ratter & Milne 1970
pumila D. Don	4		Ratter 1963
sericea Ridley		18	Ratter 1963
sinensis Lindl.		36	Ratter & Prentice 1964
speciosa Kurz as Chirita trailliana Forrest & W. W. Sm.		18	Fussell 1958; Ratter 1963; Ratter 1975
trailliana Forrest & W. W. Sm. =Chirita speciosa Kurz	18		Fussell 1958; Ratter 1963
urticifolia Buch.-Ham. ex D. Don	34		Ratter & Prentice 1964
walkeri Gardner	9		Milne 1975
zeylanica Hook.	10		Ratter & Prentice 1967
sp. from Thailand	9		Milne 1975
CHRYSOTHEMIS			
friedrichsthaliana (Hanst.) H. E. Moore	9		Lee 1966a
pulchella (Donn ex Sims) Decne.	9		Lee 1962a; Davidse 1971
CODONANTHE			
calcarata (Miq.) Hanst.	16		Wiehler 1975d

Genus, species, author	n=	2n=	References
CODONANTHE (continued)			
caribaea Urban as Codonanthe triplinervia Britt.	8		Lee 1966b; Wiehler 1975d
corniculata Wiehl. as Codonanthe sp. G-932	16		Wiehler 1975d; Wiehler 1977
crassifolia (Focke) Morton		32	Morley 1967
crassifolia (Focke) Morton	16		Wiehler 1975d
decurrens I. M. Johnst. =Codonanthe uleana Fritsch		32	Morley 1967; Wiehler 1975d
devosiana Lem.	8		Wiehler 1975d
?gracilis (Mart.) Hanst.	8		Wiehler 1975d
luteola Wiehl.	8, 16		Wiehler 1975d
macradenia J. D. Sm.	16		Lee & Grear 1963
macradenia J. D. Sm. (incorrectly identified as Codonanthe crassifolia G-70)	16		Fussell 1958; Wiehler 1975d
picta Lem.	16		Wiehler 1975d
triplinervia Britt. =Codonanthe caribaea Urban	8		Lee 1966b
uleana Fritsch	16		Wiehler 1975d
uleana Fritsch as Codonanthe decurrens I. M. Johnst.		32	Morley 1967; Wiehler 1975d
CODONANTHOPSIS			
dissimulata (H. E. Moore) Wiehl.	9		Wiehler 1978
COLUMNEA			
affinis Morton		18	Fussell 1958
allenii Morton		18	Fussell 1958; Morley 1967

Genus, species, author	n=	2n=	References
COLUMNEA (continued)			
ambigua (Urban) B. Morley as Alloplectus ambiguus Urban		36	Morley 1967; Morley 1974
ambigua (Urban) B. Morley as Alloplectus ambiguus Urban	18		Lee 1964
angustata (Wiehl.) L. Skog as Columnea sp. from Costa Rica (G-361)	9		Sherk, in Lee 1962a
anisophylla DC. as Columnea warscewicziana (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
argentea Griseb.		18	Morley 1967
arguta Morton		18	Fussell 1958; Morley 1967
aureonitens Hook.	9		Lee 1966a
aureonitens Hook.		18	Morley 1967
X banksii Lynch		18	Rogers 1954
billbergiana Beurl. as Columnea percrassa Morton	9		Lee 1962a
billbergiana Beurl. as Columnea percrassa Morton		18	Morley 1967
brevipila Urban		18	Morley 1967
brevipila Urban	9		Lee 1964
consanguinea Hanst.		36	Morley 1967
consanguinea Hanst	9		Sherk, in Lee 1962a
crassifolia Brong.		18	Fussell 1958; Morley 1967
crassifolia Brong. 'Stella Nova'		36	Morley 1967

Genus, species, author	n=	2n=	References
COLUMNEA (continued)			
dissimilis Morton as Columnea translucens Raymond	9		Lee 1966a
domingensis (Urban) B. Morley as Alloplectus domingensis Urban		18	Rogers 1954; Ratter 1963
X euphora H. E. Moore		18	Morley 1967
fawcettii (Urban) Morton	9		Lee 1964
fawcettii (Urban) Morton		18	Morley 1967
fendleri Sprague =Columnea scandens var. fendleri (Sprague) B. Morley		18	Morley 1967; Morley 1974
flaccida Seem.	9		Lee & Greer 1964
glabra Oerst.	9		Eberle 1956; Sherck, in Lee 1962a
gloriosa Sprague		18	Rogers 1954; Morley 1967
gloriosa Sprague	9		Eberle 1956; Eberle 1957a
gloriosa Sprague var. purpurea Hort. ex Chitt.	9		Morley 1967
grisebachiana O. Kuntze as Alloplectus grisebachianus (O. Kuntze) Urban		18	Morley 1967
harrisii (Urban) Britt. ex Morton		18	Morley 1967
hirsuta Sw.		18	Morley 1967
hirsutissima Morton	9		Lee 1967
hirta Kl. & Hanst.		18	Morton 1963; Morley 1967
hirta Kl. & Hanst.	9		Eberle 1956; Eberle 1957a

Genus, species, author	n=	2n=	References
COLUMNEA (continued)			
hirta var. mortonii (Raymond) B. Morley as Columnnea mortonii Raymond	9		Lee 1962a
hispida Sw.	9		Lee 1966a
hispida Sw.		18	Morley 1967
illeepida H. E. Moore	9		Sherk, in Moore 1960
jamaicensis Urban		18	Morley 1967
jamaicensis Urban	9		Lee 1967
"kewensis Hort."	9		Eberle 1956
'Kewensis Variegata'		18	Morley 1967
kucyniakii Raymond	9		Lee 1964
lepidocaula Hanst.		18	Rogers, in Lee 1962a; Morley 1967
linearis Oerst.		18	Fussell 1958
magnifica Kl. ex Oerst.	9		Lee 1966a
microphylla Kl. & Hanst.		18	Morley 1967
microphylla Kl. & Hanst.	9		Eberle 1956
minor (Hook.) Hanst.	9		Lee 1962a
minor (Hook.) Hanst. as Columnnea teuscheri (Morton) H. E. Moore	9		Lee 1962b
moorei Morton		18	Fussell, in Lee 1962a; Fussell, in Moore 1960
moorei Morton	9		Sherk, in Moore 1960
mortonii Raymond =Columnnea hirta var. mortonii (Raymond) B. Morley	9		Lee 1962a
nicaraguensis Oerst.	9		Sherk, in Lee 1962a

Genus, species, author	n=	2n=	References
COLUMNEA (continued)			
oerstediana Kl. ex Oerst.		18	Fussell 1958; Morley 1967
pectinata Morton	9		Lee 1967
percrassa Morton =Columnea billbergiana Beurl.	9		Lee 1962a
percrassa Morton =Columnea billbergiana Beurl.		18	Morley 1967
pichinchensis Hanst.		18	Morley 1967
?picta Karst.		36	Morley 1967
pilossissima Standl.		36	Morton 1963
pilossissima Standl.		18	Fussell 1958
proctorii Stearn		18	Morley, in Stearn 1969
purpurata Hanst.		18	Morley 1967
querceti Oerst.	9		Sherk, in Lee 1962a; Davidse 1970
rubricaulis Standl.	9		Lee 1967
rutilans Sw.	9		Morley 1972
rutilans Sw.		18	Morley 1967; Morley 1971
sanguinea (Pers.) Hanst.	18	36	Fussell 1958
sanguinolenta (Kl. ex Oerst.) Hanst.	9		Sherk, in Lee 1962a
scandens L.	9		Lee 1966b
scandens var. fendleri (Sprague) B. Morley as Columnea fendleri Sprague		18	Morley 1967; Morley 1974
?scandens L.		18	Morley 1967
schiedeana Schlecht.		18	Rogers 1954; Morley 1967

Genus, species, author	n=	2n=	References
COLUMNEA (continued)			
schiedeana Schlecht.	9		Eberle 1956; Eberle 1957a
subcordata Morton	9		Lee 1967
teuscheri (Morton) H. E. Moore =Columnea minor (Hook.) Hanst.	9		Lee 1966b
translucens Raymond =Columnea dissimilis Morton	9		Lee 1966a
tulae Urban 'Flava'		18	Fussell 1958; Morley 1967
urbanii Stearn		18	Morley 1967; Morley 1971
verecunda Morton	9		Sherk, in Lee 1962a
verecunda Morton		18	Rogers, in Lee 1962a
X vedrariensis Hort. Vilm. ex Mottet		18	Morley 1967
X vilmoriniana Meunniss.		18	Morley 1967
warscewicziana (Kl. ex Oerst.) Hanst. =Columnea anisophylla DC.	9		Sherk, in Lee 1962a
"wilsonii Wiehler"		18	Morley 1972
X woodii H. E. Moore		18	Morley 1967
zebrina Raymond	9		Lee 1967
sp. from Costa Rica (G-361) =Columnea angustata (Wiehl.) L. Skog	9		Sherk, in Lee 1962a

REFERENCES (only those not included in the first part of this series)

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- Fussell, in Moore 1960 see Moore 1960.
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CrossWords is published quarterly by the Gesneriad Hybridizers Association, a non-profit organization established to facilitate the sharing of information about the hybridizing of gesneriads and to further the appreciation of the results of that hybridizing. Subscription is by membership. Membership fees are \$5.00 and applications, along with cheques, should be sent to Meg Stephenson at the address below, as should address changes and other subscription correspondence. Editorial correspondence may be sent to either of the editors. Editorial deadlines are January 1, April 1, July 1, and October 1 for publication two months later. All editorial content is copy-right by the G.H.A.

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