

IOPB COLUMN

Edited by Karol Marhold & Gonzalo Nieto Feliner

IAPT/IOPB chromosome data 3

edited by Karol Marhold

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All materials CHN, collected in France by M. Espeut and A. Aboucaya, counted by R. Verlaque; vouchers in MARS.

VIOLACEAE

Viola arborescens L., $2n = 52$; Aboucaya 14, 15, 16, 17, 18

Viola arvensis Murray, $2n = 34$; Espeut 42, 51

$2n = 36$; Espeut 50

Viola bubanii Timb.-Lagr., $2n = 42-44$; Espeut 46

$2n = 52$; Espeut 49

$2n = 120$; Espeut 52

Viola canina L., $2n = 40$; Espeut 44

Viola kitaibeliana Schult., $2n = 16$; Espeut 2, 41, 37, 39

$2n = 48$; Espeut 38

Viola pseudomirabilis Coste, $2n = 40$; Espeut 31

Viola pyrenaica DC., $2n = 20$; Espeut 35

Viola reichenbachiana Boreau, $2n = 20$; Espeut 32

Viola roccabrunensis Espeut, $2n = 48$; Espeut 24, 33

Viola suavis M. Bieb., $2n = 40$; Espeut 34, 28

Viola tricolor L. subsp. *tricolor*, $2n = 26$; Espeut 45

Viola × *wittrockiana* Gams, $2n = 37-38$; Espeut 43

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All materials CHN. Materials collected in Brazil by T.B. Cavalcanti, S.A. Graham, and G. Pereira da Silva; materials collected in Cuba by S.A. Graham with R. Echevarría. All materials vouchered at MO.

LYTHRACEAE

Cuphea erectifolia Koehne, $2n = 30 + 1$ univalent or B chromosome; Brazil: Goiás, Cavalcanti & al. 3641, 3646

Cuphea hyssopoides A. St.-Hil., $n = 9$; Brazil: São Paulo, Cavalcanti & al. 3655

Cuphea linarioides Cham. & Schltldl., $n = 9$; Brazil: Goiás, Cavalcanti & al. 3643, 3645

Cuphea linifolia (A. St-Hil.) Koehne, $2n = 18$; Brazil: Paraná, Cavalcanti & al. 3697

Cuphea pseudosilene Griseb., $n = 24$; Cuba: Isla de la Juventud, Graham 1121

Cuphea tuberosa Cham. & Schltldl., $n = 8$; Brazil: Santa Catarina, Cavalcanti & al. 3709

Cuphea urbaniana Koehne, $n = 16$; Brazil: Santa Catarina, Cavalcanti & al. 3711

All materials for the chromosome column should be submitted electronically to: Karol Marhold, karol.marhold@savba.sk (Institute of Botany, Slovak Academy of Sciences, SK-845 23 Bratislava, Slovakia, and Department of Botany, Charles University, CZ 128-01 Prague, Czech Republic). The full version of this contribution is available in the online edition of TAXON. The following citation format is recommended: Baltisberger, M. & Voelger, M. 2006. *Sternbergia sicula*. In: Marhold, K. (ed.), IAPT/IOPB chromosome data 1. *Taxon* 55: 444, E2.

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* The chromosome number of the marked species has been counted for the first time.

** The chromosome number of the marked cytotypes has been counted for the first time.

VIOLACEAE

Viola arborescens L.

$2n = 52$, CHN. France, Var, Saint-Cyr, Nartette dune, 25 Jul 1994, *Aboucaya 14* (MARS). France, Var, Les Baumelles vineyards, 24 Jul 1994, *Aboucaya 15* (MARS). France, Var, La Madrague, Les Embruns, 20 Jul 1994, *Aboucaya 16, 17* (MARS). France, Aude, Leucate, 30 Jul 1994, *Aboucaya 18* (MARS).

Viola arvensis Murray

$2n = 34$, CHN. France, Hautes-Alpes, Vigneaux, in a field near La Bâtie village, 1000 m, 24 April 2001, *Espeut 42* (MARS). France, Var, Le Lavandou, in a fallow at La Vieille, 50 m, 06 April 2003, *Espeut 51* (MARS).

** $2n = 36$, CHN. France, Var, Le Muy, in a dry grassland at Les Déguiers, 40 m, 06 April 2003, *Espeut 50* (MARS).

Viola bubanii Timb.-Lagr.

** $2n = 42-44$, CHN. France, Tarn, Nages, Lacaune Mounts, heath near Griffoulou village, 1030 m, 21 May 2001, *Espeut 46* (MARS).

$2n = 52$, CHN. France, Aude, Montagne Noire, Pic de Nore, 1210 m, 25 May 2001, *Espeut 49* (MARS).

** $2n = 120$, CHN. France, Pyrénées-Orientales, Vallespir, Descargues Pass, 1400 m, 07 April 2004, *Espeut 52* (MARS).

Viola canina L.

$2n = 40$, CHN. France, Gard, heath near Bordezac, 40 m, 13 May 2001, *Espeut 44* (MARS).

Viola kitaibeliana Schult.

$2n = 16$, CHN. France, Gard, Aigues-Mortes, near Grand-

Saint-Jean, 15 March 1997, *Espeut 2* (MARS). France, Hérault, Marseillans village, les Ouglous, 25 Febr 2001, *Espeut 37* (MARS). France, Vaucluse, near Bézaure village, 10 March 2001, *Espeut 39* (MARS). France, Hérault, La Celle village, 21 March 2001, *Espeut 41* (MARS).

$2n = 48$, CHN. France, Charente-Maritime, Oloron Island, Vert-Bois beach, 02 March 2001, *Espeut 38* (MARS).

* *Viola pseudomirabilis* Coste

$2n = 40$, CHN. France, Aveyron, Larzac, Sainte-Eulalie-de-Cernon village (locus classicus), 02 May 1999, *Espeut 31* (MARS).

Viola pyrenaica DC.

$2n = 20$, CHN. France, Hautes-Alpes, Devès Mountain, near Rabou village, 1500 m, 13 April 2000, *Espeut 35* (MARS).

Viola reichenbachiana Boreau

$2n = 20$, CHN. France, Var, Barjols village, Ravin des Carmes, 300 m, 13 April 1999, *Espeut 30* (MARS). France, Gard, Cèzas village, Soulanou, 400 m, 24 March 2000, *Espeut 32* (MARS).

* *Viola roccabrunensis* Espeut

$2n = 48$, CHN. France, Var, Roquebrune-sur-Argens, in a dry grassland, 08 May 1998, *Espeut 24* (MARS). France, Var, Les Mayons, near La Sauvette village, grassland under a sparse Cork-oak-wood, 26 March 2000, *Espeut 33* (MARS).

Viola suavis M. Bieb.

$2n = 40$, CHN. France, Hautes-Alpes, Devès Mountain, near Rabou village, 1400 m, 13 April 2000, *Espeut 34* (MARS). France, Gard, Villeneuve-les-Avignon village, Les Issarts, 20 m, 07 Febr 1999, *Espeut 28* (MARS).

Viola tricolor L. subsp. *tricolor*

$2n = 26$, CHN. France, Tarn, Le Murat, fallow cereal-field, 25 May 2001, *Espeut 45* (MARS).

Viola × *wittrockiana* Gams

$2n = 37-38$, CHN. France, Hautes-Alpes, Vigneaux, in a field near La Bâtie village, 1000 m, 24 April 2001, *Espeut 43* (MARS).

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LYTHRACEAE

Cuphea erectifolia Koehne

$2n = 30 + 1$ univalent or B chromosome, CHN. Brazil: Goiás, Município Cavalcante, cerrado at km 210 on highway GO-118, between Teresina de Goiás and Alto Paraíso, 13° 53' S, 47° 20' W, 1230 m, 18 Nov 2005, *Cavalcanti & al. 3641* (MO). Brazil: Goiás, Município Cristalina, cerrado, 5 km west of Cristalina on highway BR-040, 16° 43' S, 47° 38' W, 1180 m, 21 Nov 2005, *Cavalcanti & al. 3646* (MO).

Cuphea hyssopoides A. St.-Hil., $n = 9$, CHN. Brazil: São Paulo, Município Pedregulho, rocky field, 23 km W of Estreito on highway SP-334, 20° 11' S, 47° 18' W, 746 m, 22 Nov 2005, *Cavalcanti & al. 3655* (MO).

Cuphea linarioides Cham. & Schldtl., $n = 9$, CHN. Brazil: Goiás, Município Cristalina, open cerrado, at km 66 on highway BR-040 between Brasília and Cristalina, 16° 34' S, 47° 47' W, 850 m, 21 Nov 2005, *Cavalcanti & al. 3643* (MO). Brazil: Goiás, Município Cristalina, cerrado, 5 km W of Cristalina on highway BR-040, 16° 43' S, 47° 38' W, 1180 m, 21 Nov 2005, *Cavalcanti & al. 3645* (MO).

Cuphea linifolia (A. St.-Hil.) Koehne, $2n = 18$, CHN. Brazil: Paraná, Município Palmeira, campo at km 174 on highway BR-277 between Irati and Palmeiras, 25° 25' S, 50° 02' W, 870 m, 27 Nov 2005, *Cavalcanti & al. 3697* (MO).

Cuphea pseudosilene Griseb., $n = 24$, CHN. Cuba: Isla de la Juventud, in white sand, Lomas de Canada, 31 May 2000, *Graham 1121* (MO).

Cuphea tuberosa Cham. & Schldtl., $n = 8$, CHN. Brazil: Santa Catarina, Município Porto União, grassy flooded field, 10 km from highway BR-280 entrance to city of Canoinhas from Porto União, 26° 16' S, 51° 02' W, 767 m, 27 Nov 2005, *Cavalcanti & al. 3709* (MO).

Cuphea urbaniana Koehne, $n = 16$, CHN. Brazil: Santa Catarina, Município Porto União, wet field, on highway BR-153 at the highway interchange access to General Carneiro from Porto União, 26° 25' S, 51° 18' W, 914 m, 28 Nov 2005, *Cavalcanti & al. 3711* (MO).