

## IOPB COLUMN

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## IAPT/IOPB chromosome data 3

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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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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.

**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).