Erratum

Genome Size Variation in *Malus* Species

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Received 18 August 2010; Accepted 24 August 2010

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The sectional classification of the genus *Malus* should correctly read Eumalus (*Malus*).

In the Introduction section, the third paragraph should read “Most species are diploid ($x = 17$) and cross-pollinated, but Way et al. [10] list *Malus coronaria* from the American section Chloromeles as apomictic and either triploid or tetraploid. They also note deviations from the normal type in section Eumalus and Sorbomalus: *M. sikkimensis*, *M. hupehensis* and *M. toringoides* (apomictic and triploid), *M. sargentii* (apomictic and tetraploid), and *M. spectabilis* and *M. baccata* (nonapomictic and either diploid or tetraploid),” while the sixth paragraph in the Discussion section should be written as “Harris et al. [30] analysed nuclear rDNA and chloroplast DNA sequences and placed *Malus trilobata* and *Malus florentina* in the same cluster. The present measurement of the DNA content would support the results of Harris et al. [30]. Qian et al. [7] characterized *Malus florentina* as a new section Florentinae. 25 species including 17 hybrid species demonstrated 1Cx DNA contents in the interval between -5% and $+5\%$ of the median of the diploid species. All species belong to the section Eumalus and Sorbomalus, series Sieboldianae and Kansuenses, and have native distribution in Asia and Europe with the exception of the species *M. fusca* spread on the West coast of North America.” Finally, the word Euromalus should be changed into Eumalus in all the occasions mentioned in Table 1 as well.

TABLE 1: Nuclear DNA content (pg/2C median; 25% and 75% value) of *Malus* species (Number of accessions used for measurements) with the results of the nonparametric Kruskal-Wallis Test together with Dunn's Multiple Range Test; medians with the same letter was not significantly different at 5% level. Each ploidy level was analysed separately. Classification was based on Rehder [5] and Langenfelds [14].

Species	Section	Series	Nuclear DNA content (pg/nucleus)				Results of the Kruskal-Wallis test		
			No.	Median*	25%	75%			
Ploidy level 2x = 34			1.484						
<i>M. tschonoskii</i>	Docyniopsis		1	1.245	1.150	1.283	a		
<i>M. yunnanensis</i>	Sorbomalus	Yunnanenses	2	1.337	1.320	1.350	a		
<i>M. ombrophila</i>	Sorbomalus	Yunnanenses	1	1.341	1.329	1.351	a	b	
<i>M. kansuensis</i>	Sorbomalus	Kansuenses	6	1.365	1.350	1.384	a	b	
<i>M. honanensis</i>	Sorbomalus	Yunnanenses	1	1.378	1.276	1.413	a	b	
<i>M. prattii</i>	Sorbomalus	Yunnanenses	1	1.397	1.386	1.406	a	b	
<i>M. baccata</i>	Eumalus	Baccatae	16	1.440	1.430	1.467		b	
<i>M. ×zumi</i> 2x	Eumalus	Baccatae	10	1.461	1.439	1.512		b	c
<i>M. ×dawsoniana</i>	Sorbomalus	Kansuenses	1	1.464	1.455	1.478		b	c
<i>M. fusca</i>	Sorbomalus	Kansuenses	5	1.464	1.460	1.470		b	c
<i>M. hupehensis</i> 2x	Eumalus	Baccatae	2	1.466	1.451	1.475		b	c
<i>M. ×hartwigii</i>	Eumalus	Baccatae	1	1.471	1.450	1.475		b	c
<i>M. ×adstringensis</i> 2x	Eumalus	Baccatae	5	1.475	1.454	1.493		b	c
<i>M. ×moerlandsii</i>	Eumalus	Pumilae	4	1.476	1.457	1.493		b	c
<i>M. ×purpurea</i>	Eumalus	Pumilae	7	1.484	1.467	1.493			c d
<i>M. sylvestris</i>	Eumalus	Pumilae	11	1.484	1.460	1.509			c d
<i>M. ×robusta</i>	Eumalus	Baccatae	5	1.490	1.458	1.519			c d
<i>M. ×atrosanguinea</i>	Eumalus	Baccatae	1	1.493	1.449	1.493		b	c d
<i>M. ×sublobata</i>	Eumalus	Pumilae	4	1.497	1.459	1.550			c d
<i>M. ×arnoldiana</i>	Eumalus	Baccatae	3	1.499	1.470	1.529			c d
<i>M. ×asiatica</i>	Eumalus	Pumilae	4	1.500	1.470	1.514			c d
<i>M. prunifolia</i>	Eumalus	Pumilae	10	1.500	1.475	1.519			c d
<i>M. sieversii</i>	Eumalus	Pumilae	6	1.501	1.482	1.513			c d
<i>M. orientalis</i>	Eumalus	Pumilae	7	1.502	1.458	1.519			c d
<i>M. spectabilis</i> 2x	Eumalus	Pumilae	7	1.502	1.484	1.523			c d e
<i>M. ×scheideckeri</i>	Sorbomalus	Sieboldianae	3	1.507	1.479	1.530			c d e
<i>M. floribunda</i>	Sorbomalus	Sieboldianae	6	1.509	1.490	1.529			c d e
<i>M. ×domestica</i> 2x	Eumalus	Pumilae	8	1.514	1.487	1.530			c d e
<i>M. ×micromalus</i>	Eumalus	Baccatae	2	1.528	1.497	1.534			c d e
<i>M. sieboldii</i> 2x	Sorbomalus	Sieboldianae	5	1.530	1.505	1.533			d e
<i>M. transitoria</i>	Sorbomalus	Kansuenses	5	1.535	1.514	1.551			d e
<i>M. ×soulardii</i>	Chloromeles		4	1.564	1.512	1.588			d e f
<i>M. ioensis</i> 2x	Chloromeles		4	1.565	1.523	1.667			e f
<i>M. trilobata</i>	Eriolobus		3	1.638	1.621	1.667			f
<i>M. florentina</i>	Sorbomalus	Florentinae	3	1.653	1.635	1.660			f
Ploidy level 3x = 51			2.198						
<i>M. hupehensis</i> 3x	Eumalus	Baccatae	18	2.121	2.014	2.174	a		
<i>M. sikkimensis</i> 3x	Eumalus	Baccatae	7	2.165	2.148	2.180	a	b	
<i>M. ×zumi</i> 3x	Eumalus	Baccatae	1	2.194	2.143	2.229	a	b	c
<i>M. sieboldii</i> 3x	Sorbomalus	Sieboldianae	3	2.193	2.183	2.201		b	c
<i>M. ×adstring</i> 3x	Eumalus	Baccatae	3	2.201	2.191	2.211		b	c
<i>M. toringoides</i> 3x	Sorbomalus	Kansuenses	7	2.202	2.172	2.254		b	c
<i>M. spectabilis</i> 3x	Eumalus	Pumilae	1	2.206	2.195	2.216		b	c
<i>M. halliana</i>	Eumalus	Baccatae	3	2.209	2.174	2.217		b	c
<i>M. komarovii</i> 3x	Sorbomalus	Kansuenses	5	2.232	2.210	2.261			c d

TABLE 1: Continued.

Species	Section	Series	Nuclear DNA content (pg/nucleus)				Results of the Kruskal-Wallis test		
			No.	Median*	25%	75%			
<i>M. ×domestica</i> 3x	Eumalus	Pumilae	6	2.270	2.252	2.296	c	d	
<i>M. sargenti</i> 3x	Sobomalus	Sieboldianae	2	2.285	2.197	2.307		d	
<i>M. ioensis</i> 3x	Chloromeles		2	2.414	2.396	2.426		d	
<i>M. coronaria</i> 3x	Chloromeles		3	2.428	2.183	2.462		d	
Ploidy level 4x = 68				3.007					
<i>M. sikkimensis</i> 4x	Eumalus	Baccatae	2	2.851	2.815	2.894	a		
<i>M. sieboldii</i> 4x	Sorbomalus	Sieboldianae	5	2.879	2.832	2.938	a		
<i>M. komarovii</i> 4x	Sorbomalus	Kansuenses	2	2.917	2.847	3.013	a	b	
<i>M. sargenti</i> 4x	Sorbomalus	Sieboldianae	4	2.918	2.891	2.958	a	b	
<i>M. toringoides</i> 4x	Sorbomalus	Kansuenses	1	2.958	2.947	2.979	a	b	c
<i>M. lancifolia</i>	Chloromeles		1	3.007	2.969	3.035		c	d
<i>M. glaucescens</i>	Chloromeles		1	3.102	3.082	3.197			d e
<i>M. angustifolia</i>	Chloromeles		1	3.116	3.101	3.122		c	d e
<i>M. ×platycarpa</i>	Chloromeles		4	3.151	3.118	3.177			d e
<i>M. coronaria</i> 4x	Chloromeles		6	3.186	3.115	3.221			e
<i>M. ×heterophylla</i>	Chloromeles		1	3.193	3.167	3.216			e
Ploidy level 5x-6x									
<i>M. sikkimensis</i> 5x	Eumalus	Baccatae	1	3.540					
<i>M. sargenti</i> 5x	Sorbomalus	Sieboldianae	1	3.874					
<i>M. sargenti</i> 5x-6x	Sorbomalus	Sieboldianae	1	4.286					

* Estimation based on propidium iodide staining by using the internal standard radish (1.1 pg/2C).