

CORRECTION



Correction: The male-heterogametic sex determination system on chromosome 15 of *Salix triandra* and *Salix arbutifolia* reveals ancestral male heterogamety and subsequent turnover events in the genus *Salix*

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In this article, Table 1 has been incorrectly given. The table should read as follows. The original article has been corrected.

Table 1. Possible transitions in sex determination and sex chromosomes in poplars and willows.

Genus	Species	Male or female heterogamety	Chromosome carrying the sex-determining locus	Estimated size of the sex-linked regions (kb)	Possible transitions ^a	ARR17-like gene (intact, I or partial, P)	References
<i>Populus</i>	<i>P. euphratica</i>	male	14	84–530 (X), 620–658 (Y)	19 XY to 14 XY or maintained 14 XY (1)	Ten P on chr14Y (in the S-LR); One I on chr19	Yang et al. 2021; Zhang et al. 2022
	<i>P. pruinosa</i>	male	14	unknown	19 XY to 14 XY or maintained 14 XY (1)	One I and two P on genome (specific region is unknown)	Müller et al. 2020
	<i>P. qionghdaoensis</i>	female	19	~1710(W), ~1280(Z)	14 XY or 19 XY to 19 ZW?	Two I on chr19W (in S-LR); Two P on chr19W (not in S-LR)	Li et al. 2022; Renner and Müller 2021;
	<i>P. adenopoda</i>	female	19	unknown	14 XY or 19 XY to 19 ZW (2)	unknown	Renner and Müller 2021
	<i>P. alba</i>	female	19	~140 (W), 33 (Z)	14 XY or 19 XY to 19 ZW (2) to 19 ZW (3)	Three I on chr19W (in S-LR)	Li et al. 2022; Müller et al. 2020; Paolucci et al. 2010
	<i>P. tremula</i>	male	19	~1000 (Y)	19 ZW to 19 XY (4)	One I on each of chr19X and chr19Y (not in S-LR); Three P on chr19Y (in S-LR)	Li et al. 2022; Renner and Müller 2021; Yang et al. 2021
	<i>P. tremuloides</i>	male	19	2000 (Y)	19 ZW to 19 XY?	unknown	Kersten et al. 2014; Pakull et al. 2009; Renner and Müller 2021; Wang et al. 2022
	<i>P. nigra</i>	male	19	unknown	14 XY to 19 XY or maintained 19 XY (1)	unknown	Gaudet et al. 2008;
	<i>P. deltoides</i>	male	19	~300(X, Y)	14 XY to 19 XY or maintained 19 XY (1)	One I on each of chr19X and 19Y (not in S-LR); Eight P on Y-LR	Xue et al. 2020
	<i>P. balsamifera</i>	male	19	~100(Y)	14 XY to 19 XY or maintained 19 XY (1)	unknown	Geraldes et al. 2015; McKown et al. 2017
	<i>P. × sibirica</i>	male	19	unknown	14 XY to 19 XY or maintained 19 XY (1)	Two I on each of chr19X and chr19Y; Two P on chr19Y	Melnikova et al. 2021

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Table 1. continued

Genus	Species	Male or female heterogamety	Chromosome carrying the sex-determining locus	Estimated size of the sex-linked regions (kb)	Possible transitions ^a	ARR17-like gene (intact, I or partial, P)	References
	<i>P. trichocarpa</i>	male	19	~100 (Y)	14 XY to 19 XY or maintained 19 XY (1)	One I on each of chr19X and 19Y (not in S-LR); Two P on Y-LR	Geraldes et al. 2015; Li et al. 2022; McKown et al. 2017;
	<i>P. trichocarpa</i>	female	19	~1000 (W)		unknown	Yin et al. 2008
<i>Salix</i>	<i>Salix</i> clade						
	<i>S. dunnii</i>	male	7	3205 (X)	15 XY to 7 XY (1) or maintained 7 XY	Copies on chromosomes 1, 3, 8, 13 and 19	He et al. 2021a
	<i>S. chaenomeloides</i>	male	7	~2600(X), ~2500(Y)	15 XY to 7 XY (1) or maintained 7 XY	Nine P on chr7Y (in S-LR); Two I on chr19	Wang et al. 2022
	<i>S. nigra</i>	male	7	2000	15 XY to 7 XY (1) or maintained 7 XY	unknown	Sanderson et al. 2021
	<i>Vetrix</i> clade						
	<i>S. triandra</i>	male	15	~2800	7 XY to 15 XY (1) or maintained 15 XY	unknown	this study
	<i>S. triandra</i>	female	15	~6500		unknown	Li et al. 2020
	<i>S. arbutifolia</i>	male	15	~3330; ~2390(X), ~1800(Y)	7 XY to 15 XY (1) or maintained 15 XY	Nine P on chr15Y (in S-LR); Two I on chr19	this study; Wang et al. 2022
	<i>S. purpurea</i>	female	15	6700 (W), 4400 (Z)	15 XY to 15 ZW (2)	Four I on chr15W (in S-LR); Nine P on chr15Z (in S-LR); Two I on chr19	Wang et al. 2022; Zhou et al. 2020;
	<i>S. suchowensis</i>	female	15	unknown	15 XY to 15 ZW (2)	unknown	Hou et al. 2015
	<i>S. viminalis</i>	female	15	3100–3400 (W, Z)	15 XY to 15 ZW (2)	One I in W-LR	Almeida et al. 2020
	<i>S. polyclona</i>	female	15	46800	15 XY to 15 ZW (2)	unknown	He et al. 2022

^aNumbers in parentheses indicate the turnover events for willows in Fig. 4, and for poplars that summarized from literatures. The “?” indicates that turnover event was uncertain.