

Appendix 1

*Salix kitaibeliana*



*S. retusa* s.s.



*S. serpyllifolia*



1 cm

Figure A1. Differences in leaf sizes among three willow taxa from *Salix retusa* agg.

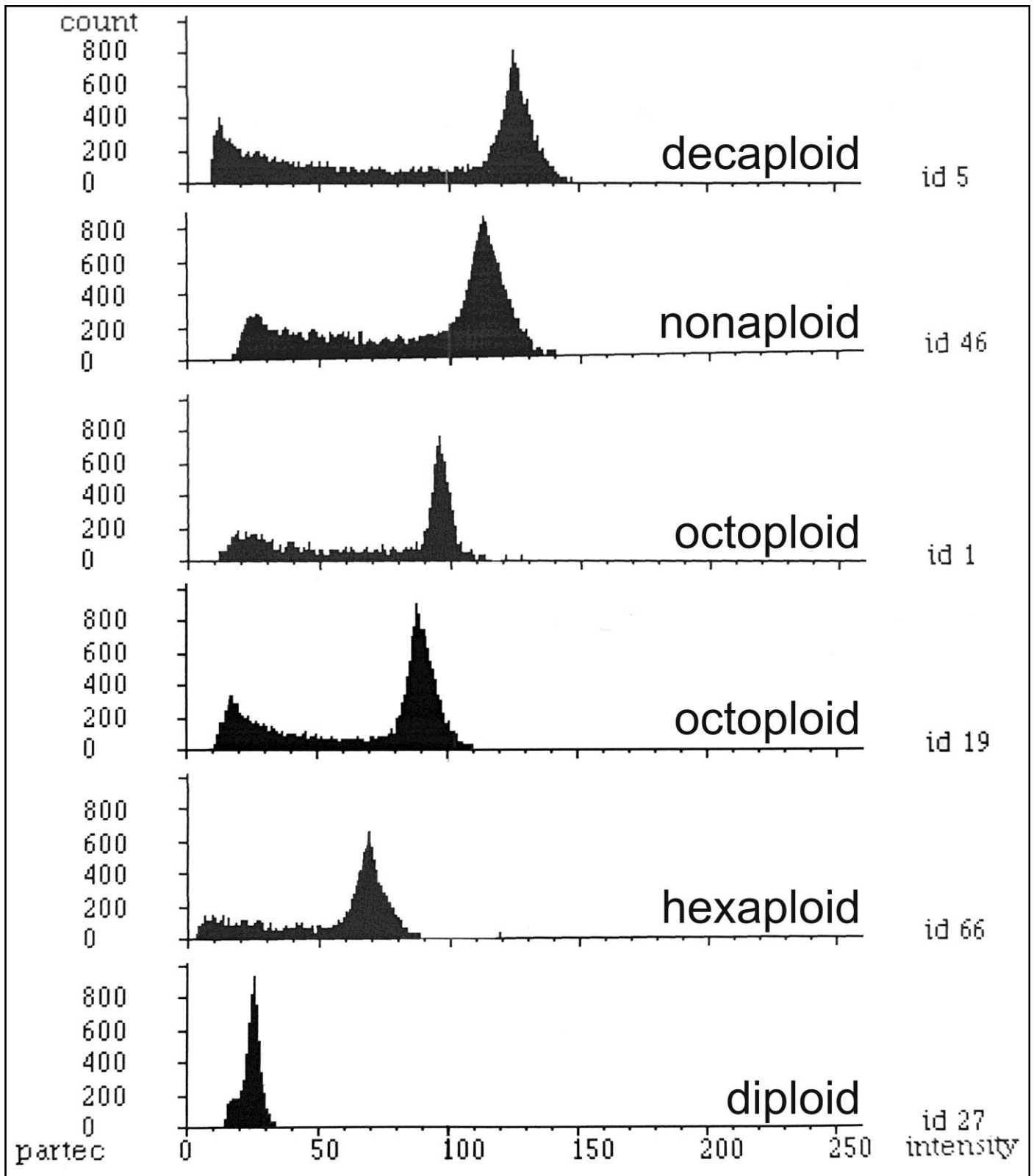


Figure A2. Examples of flow cytometry histograms with different DNA ploidy levels in *Salix retusa* agg. samples

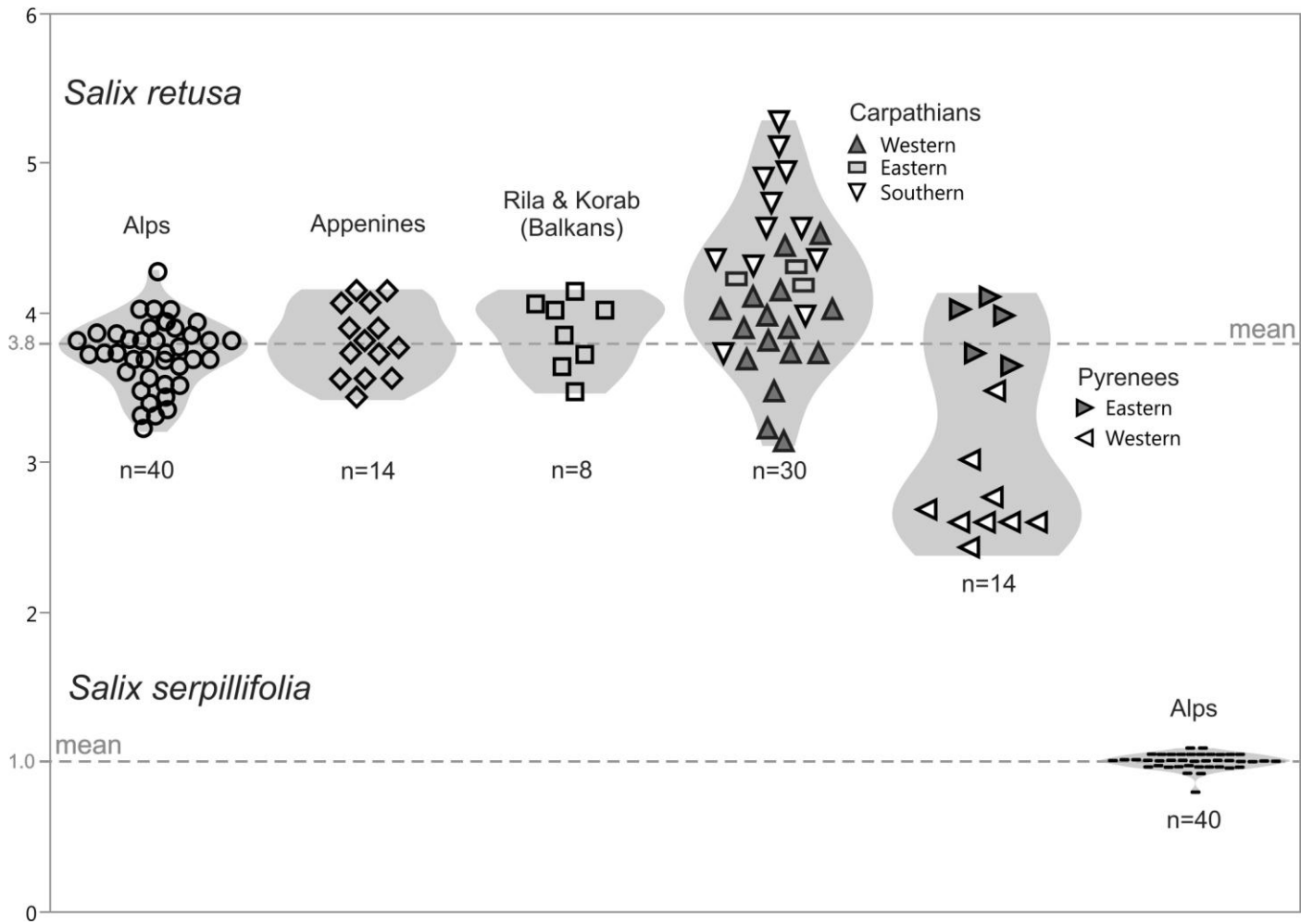


Figure A3. Sample peak ratios (mean target sample peak position/diploid external standard peak position) in *Salix retusa* agg. across mountain ranges

Table A1. The number of chromosomes in *Salix retusa* agg. according to the literature data

Species	Ploidy	Location	Source
<i>S. serpyllifolia</i>	$2n = 2x = 36-41$	SE Alps, 1810 m	5
	$2n = 2x = 38$	W Alps (Glarus Alps), 2300 m	5
	$2n = 2x = 37$		
	$2n = 2x = 37-38$	W Alps (Valais), 1820-1830 m	6
	$2n = 2x = 38$		
	$2n = 2x = 38-39$	E Alps (Dolomites), 2340 m	6
	$2n = 2x = 38$	S Limestone Alps	7
	$2n = 2x = 38$	E Alps (Rhaetian Alps), 2600 m	8
	$2n = 4x = 76$	not given	3
	$2n = 8x = 152$	not given	3
<i>S. retusa</i> s.s.	$2n = 4x = 76$	Carpathians, High Tatras	2
	$2n = 4x = 76$	not given (Carpathians?)	3
	$2n = 4x = 76$	Carpathians, High Tatras, 2035 m	4
	$2n = 4x = 76$	Carpathians, High Tatras, 1830 m	4
	$2n = 6x = 111$	W Alps (Appenzell Alps), 1470 m	5
	$2n = 6x \approx 114$	Pirin Mts.	7
	$2n = 6x = 114$	Alps	1
	$2n = 6x \approx 114$	E Alps (Gurktal Alps), 2200 m	8
	$2n = 8x \approx 148$	W Alps (Appenzell Alps), 1500 m	6
	$2n = 8x \approx 152$	W Alps (Appenzell Alps)	6
	$2n = 8x \approx 152$	W Alps (Valais)	7
	$2n = 8x \approx 140$	(in cultivation)	7
<i>S. kitaibeliana</i>	$2n = 4x = 76$	Carpathians, High Tatras	2
	$2n = 4x = 76$	not given (Carpathians?)	3
	$2n = 4x = 76$	Carpathians, High Tatras, 1800 m	4
	$2n = 8x \approx 130-140$	Carpathians, High Tatras, 1710 m	5
	$2n = 8x = 152$	Carpathians, High Tatras	6

1 – Mattick in Tischler (1950), 2 – Váchová and Chmelař in Löve (1976), 3 – Váchová in Chmelař (1979), 4 – Izmailow (1980), 5 – Büchler (1985), 6 – Büchler (1986), 7 – Büchler (1992), 8 – Dobeš et al. (1997)

## References

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