

S1 Table. Linear model results for seedlings testing for the effect of temperature on leaf shape within species.

Variable	<i>Acer negundo</i>			<i>Betula lenta</i>			<i>Carpinus caroliniana</i>			<i>Quercus rubra</i>		
	Warm treatment	Cool treatment	<i>P</i>	Warm treatment	Cool treatment	<i>P</i>	Warm treatment	Cool treatment	<i>P</i>	Warm treatment	Cool treatment	<i>P</i>
Tooth abundance												
Number of teeth	7.40 (0.64)	15.89 (0.94)	0.43	66.9 (1.64)	56.5 (4.37)	0.06	37.4 (3.71)	67.5 (3.01)	<0.001	8.71 (0.57)	13.34 (1.58)	0.94
Number of teeth / internal perimeter (cm ⁻¹)	0.48 (0.04)	0.97 (0.17)	0.58	3.41 (0.10)	3.71 (0.28)	0.87	2.90 (0.12)	4.63 (0.29)	<0.001	0.35 (0.02)	0.37 (0.05)	1.00
Number of teeth / blade area (cm ⁻²)	0.68 (0.12)	1.49 (0.47)	0.91	3.91 (0.21)	5.47 (0.57)	0.10	4.55 (0.62)	6.13 (0.68)	0.25	0.36 (0.07)	0.30 (0.06)	1.00
Tooth size												
Tooth area (cm ²)	0.49 (0.10)	1.24 (0.30)	0.06	1.24 (0.10)	1.29 (0.21)	1.00	0.74 (0.11)	0.79 (0.09)	1.00			
Average tooth area (cm ²)	0.06 (0.01)	0.09 (0.02)	0.46	0.02 (0.001)	0.04 (0.01)	0.86	0.02 (0.002)	0.01 (0.001)	1.00			
Tooth area / internal perimeter (cm)	0.03 (0.01)	0.06 (0.01)	0.005	0.06 (0.002)	0.07 (0.01)	0.33	0.06 (0.005)	0.05 (0.003)	0.99			
Tooth area / blade area	0.03 (0.01)	0.07 (0.002)	<0.001	0.07 (0.002)	0.10 (0.01)	<0.001	0.08 (0.01)	0.06 (0.001)	0.10			
Leaf dissection												
Circularity	0.60 (0.02)	0.46 (0.02)	<0.001	0.28 (0.01)	0.28 (0.01)	1.00	0.39 (0.02)	0.32 (0.01)	0.21	0.55 (0.01)	0.43 (0.03)	<0.001
Perimeter ratio	1.05 (0.01)	1.14 (0.01)	0.30	1.45 (0.02)	1.51 (0.04)	0.59	1.38 (0.04)	1.46 (0.02)	0.30	1.03 (0.003)	1.06 (0.01)	1.00
Feret diameter ratio	0.75 (0.01)	0.77 (0.01)	0.92	0.64 (0.004)	0.64 (0.01)	1.00	0.73 (0.005)	0.71 (0.004)	0.89	0.67 (0.01)	0.63 (0.02)	0.12
Fractal dimension	1.88 (0.01)	1.88 (0.01)	1.00	1.89 (0.003)	1.87 (0.005)	0.53	1.85 (0.01)	1.87 (0.01)	0.78	1.91 (0.01)	1.92 (0.01)	0.98

See Table 1 in main text for definitions of leaf shape variables. Values in parentheses are the standard error of the mean. *P* is the probability that there is no difference in leaf shape within a species between the temperature treatments; values in bold are <0.05. *P*-values are based on estimated marginal means (EMMs; see Methods).