

Table S1. Descriptive statistics for the examined plant structures of the *T. montanum*.

CS	Sample size	Mean	Min	Max	SD	SE
Corolla	800	359.458	249.903	463.804	39.690	1.403
Leaf	1200	339.533	174.143	618.234	83.315	2.405
Stem	1200	190.603	104.637	340.391	37.156	1.073

Table S2. Analysis of variance (ANOVA) for the centroid size of corolla, leaf and stem of *T. montanum*. df - degree of freedom, MS - mean value of sum of squares, F - value of F test, P - level of statistical significance.

Variation source	df	MS	F	P
Corolla				
Geological substrate	1	0.020	2	0.170
Error	798	0.010		
Leaf				
Geological substrate	1	17.960	396.0	0.000
Error	1198	0.050		
Stem				
Geological substrate	1	5.100	155.6	0.000
Error	1198	0.030		

Table S3. Differences in the mean values of the centroid size of the examined plant structures of *T. montanum* in relation to the type of substrate obtained by the Tuckey test. Statistically significant differences ($P \leq 0.05$) are bolded.

	df	MS	Calcareous	Serpentinite	P
Corolla	798	0.013	5.884	5.873	0.169
Leaf	1198	0.045	5.908	5.662	0.000
Stem	1198	0.033	5.291	5.160	0.000

Table S4. Principal component analysis (PCA) for symmetric and asymmetric variance of corolla.

	Symmetric component			Asymmetric component		
	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative
PC ₁	164.058	25.283	25.283	72.566	31.600	31.600
PC ₂	125.839	19.393	44.676	57.005	24.823	56.423
PC ₃	85.848	13.230	57.906	18.281	7.961	64.384
PC ₄	74.605	11.497	69.403	14.308	6.231	70.614
PC ₅	39.971	6.160	75.563	10.056	4.379	74.994
PC ₆	32.148	4.954	80.518	8.852	3.855	78.848
PC ₇	27.859	4.293	84.811	8.127	3.539	82.387

PC ₈	21.654	3.337	88.148	6.662	2.901	85.288
PC ₉	16.933	2.610	90.758	6.436	2.802	88.091
PC ₁₀	13.502	2.081	92.838	5.907	2.572	90.663
PC ₁₁	10.872	1.676	94.514	5.438	2.368	93.031
PC ₁₂	10.566	1.628	96.142	4.881	2.125	95.157
PC ₁₃	9.233	1.423	97.565	3.896	1.697	96.853
PC ₁₄	5.939	0.915	98.481	2.950	1.284	98.138
PC ₁₅	5.382	0.829	99.310	2.487	1.083	99.221
PC ₁₆	4.478	0.690	100.000	1.790	0.779	100.000
Total variance (10 ⁻⁵)	648.888			229.642		

Table S5. Principal component analysis (PCA) for symmetric and asymmetric leaf variance.

	Symmetric component			Asymmetric component		
	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative
PC ₁	204.603	65.520	65.520	148.909	85.863	85.863
PC ₂	41.236	13.205	78.726	13.829	7.974	93.836
PC ₃	30.125	9.647	88.372	4.788	2.761	96.598
PC ₄	20.102	6.437	94.810	3.051	1.759	98.357
PC ₅	10.254	3.284	98.093	1.681	0.969	99.326
PC ₆	5.954	1.907	100.000	1.168	0.674	100.000
Total variance (10 ⁻⁵)	312.274			173.427		

Table S6. Principal component analysis (PCA) for symmetric and asymmetric stem variance.

	Symmetric component			Asymmetric component		
	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative	Eigenvector (10 ⁻⁵)	% Variation	% Cumulative
PC ₁	225.606	42.780	42.780	90.623	40.116	40.116
PC ₂	138.066	26.180	68.960	54.048	23.925	64.042
PC ₃	58.459	11.085	80.045	24.903	11.024	75.065
PC ₄	29.249	5.546	85.592	13.325	5.898	80.964
PC ₅	27.056	5.130	90.722	11.895	5.266	86.229
PC ₆	16.673	3.162	93.884	10.485	4.641	90.871
PC ₇	10.422	1.976	95.860	7.339	3.249	94.119
PC ₈	10.127	1.920	97.780	4.992	2.210	96.329
PC ₉	7.676	1.455	99.235	4.543	2.011	98.340
PC ₁₀	4.032	0.765	100.000	3.750	1.660	100.000
Total variance	527.366			225.903		

(10⁻⁵)

Table S7. Multivariate regression of shape variables on centroid size of examined plant structures of *T. montanum*. % - percentage of shape variation dependent on size variation, P - level of statistical significance.

		%	P
Corolla	Symmetric	5.829	0.000
	Asymmetric	0.394	0.009
Leaf	Symmetric	0.382	0.010
	Asymmetric	0.075	0.349
Stem	Symmetric	6.136	0.000
	Asymmetric	0.153	0.111

Table S8. Discriminant analysis. The values of the Procrustes distances between the mean shapes of the investigated plant structures in relation to the type of substrate with and without the allometric component are shown. Statistically significant differences are indicated in bold.

		Procrustes distance		Procrustes distance		Significance
		With allometry	P	Without allometry	P	
Corolla	Symmetric	0.017	<.0001	0.018	<.0001	
	Asymmetric	0.004	0.228	0.018	<.0001	
Leaf	Symmetric	0.007	0.015	0.009	<.0001	
	Asymmetric	0.001	0.739	0.002	0.563	
Stem	Symmetric	0.007	0.033	0.016	<.0001	
	Asymmetric	0.003	0.343	0.004	0.120	