

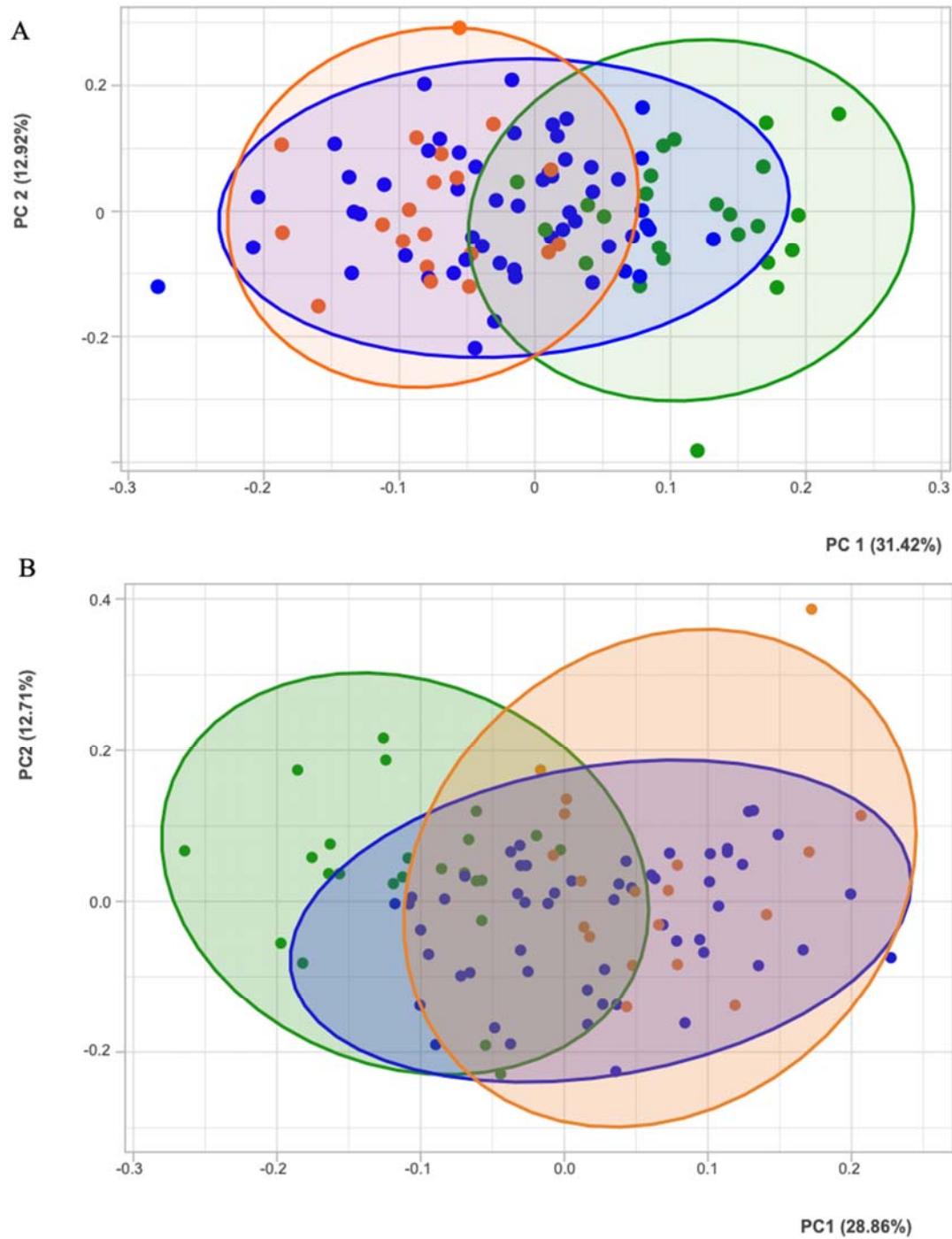
**Appendix S7.** Comparison of the PCA results for the two data sets of morphological characters measured in the common garden experiment, at both the peak of the growing season and 2 months after each plant emerged. Similarities in the identification of important variables in the construction of PC1, PC2, and PC3 are marked in bold (black), and differences have been highlighted in bold and red.

**Table S7.A.** Loading scores for variables contributing to the first 3 principle components of the PCA constructed from morphological data for all 98 individuals, captured 2 months after emergence of each individual. Similarities (black) and differences (red) between the two PCAs, in terms of highly explanatory variables, are indicated in bold.

Morphological trait	PC1	PC2	PC3
Petiole length	0.171148589	<b>-0.32927082</b>	-0.138966729
Middle leaflet length	0.290841467	-0.15621006	-0.009598323
Middle leaflet width	<b>0.310520246</b>	-0.19435230	-0.176017614
Lateral leaflet length	0.290749181	-0.28680919	-0.101817525
<b>Lateral-leaflet width</b>	<b>0.308723684</b>	-0.17774711	-0.178682023
Flower diameter	0.297529101	0.14141799	0.110744776
Petal length	0.296485312	-0.01811135	0.258939692
Petal width	<b>0.314362768</b>	0.18323322	-0.001857691
Sepal length	0.286328271	0.14537488	0.172273254
Sepal width	0.173880675	0.26341731	-0.256890841
Number of leaves	-0.064900053	0.19270049	0.186667870
Number of inflorescences	-0.023660230	0.22021498	0.167104357
Bract length	0.202633896	0.13133874	0.261332948
Peduncle length	0.276671723	0.07974962	0.017381272
Bract position	0.261832162	0.04565799	0.111569304
Ratio bract position to peduncle length	-0.012749293	0.08574978	<b>-0.375834705</b>
Ratio sepal length to sepal width	0.068636915	-0.15450242	<b>0.405244030</b>
Ratio petal length to petal width	-0.100290763	<b>-0.30953206</b>	<b>0.335876393</b>
Ratio sepal length to petal length	0.001668905	-0.20652811	0.100764667
Ratio lateral-leaflet width to length	0.035361868	0.22224862	-0.172582874
Ratio mid-leaflet width to length	0.058144160	-0.06960918	-0.263220593
Difference peduncle and petiole length	0.092449205	<b>0.41093360</b>	0.157773477
Ratio flower diameter to petal length	0.057736119	0.25886646	-0.190038000

**Table S7.B.** Loading scores for variables contributing to the first three principle components of the PCA constructed from morphological data for all 98 individuals, captured at the peak of the growing season. Similarities (black) and differences (red) between the two PCAs, in terms of highly explanatory variables, are indicated in bold.

Morphological trait	PC1	PC2	PC3
Petiole length	-0.127870320	-0.04480974	0.33817611
Middle leaflet length	-0.284249269	-0.23640178	0.19503517
<b>Middle leaflet width</b>	<b>-0.315388724</b>	-0.17399790	0.05877109
Lateral leaflet length	-0.304269668	-0.13443735	0.18261790
Lateral leaflet width	-0.304414724	-0.18844770	0.06862474
<b>Flower diameter</b>	<b>-0.322699755</b>	0.10536028	-0.08090536
Petal length	-0.306061652	0.20348656	0.04212910
<b>Petal width</b>	<b>-0.314438235</b>	0.04123640	-0.10125485
Sepal length	-0.223831398	-0.13372437	0.09380340
Sepal width	-0.171509972	-0.07105417	<b>-0.39801765</b>
Number of leaves	0.125022750	<b>-0.37049037</b>	-0.03180551
Number of inflorescences	0.037045335	<b>-0.39484893</b>	-0.07322786
Bract length	-0.214147942	-0.14106976	0.12145883
Peduncle length	-0.263035552	0.17899111	-0.07203242
Bract position	-0.247176052	0.19678950	-0.05229351
Ratio bract position to peduncle length	0.027557085	0.11802490	0.09320373
Ratio sepal length to sepal width	-0.003693819	-0.02917894	<b>0.43118647</b>
Ratio petal length to petal width	0.116146820	0.26172076	0.26685831
Ratio sepal length to petal length	0.107686627	<b>-0.40244182</b>	-0.02568226
Ratio lateral leaflet width to length	-0.013229607	-0.10776932	-0.24583070
Ratio mid leaflet width to length	-0.099747786	0.09063359	-0.23251528
Difference peduncle and petiole length	-0.111256226	0.19461109	<b>-0.36708409</b>
Ratio flower diameter to petal length	-0.020699924	-0.30713541	-0.27480430



**Figure S7.** (A) Principal component analysis (PCA)-based data set of character terms measured at the peak of the growing season. (B) PCA based on data set for characters measured 2 months after emergence of each individual plant. Both PCAs based on 23 morphological traits as predictors of cytotype (diploid: green, tetraploid: blue, hexaploid :orange).