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**Supplementary Figure S1**. Flow cytometric measurements of DAPI-stained leaves. (A) Histogram of the control diploid plant GUA1 (peak 1). (B) Histogram of the diploid control plant GUA1 (peak 1) and triploid plant AOU10 (peak 2) with index peak ratio 17/11=1.54. (C) Histogram of the diploid control plant GUA1 (peak 1) and hexaploid plant MAR2 (peak 2) with index peak ratio 36/13=2.8.

**Supplementary Figure S2**. Quantification of morphological parameters of wild olive genotypes sorted by plant height, represented in the top graph.



 **Supplementary Figure S2**. Quantification of morphological parameters of wild olive genotypes sorted by plant height, represented in the top graph (continued).

 **Supplementary Figure S2**. Quantification of morphological parameters of wild olive genotypes sorted by plant height, represented in the top graph (continued).



 **Supplementary Figure S2**. Quantification of morphological parameters of wild olive genotypes sorted by plant height, represented in the top graph (Continued)

