



Figure S2. Reconstructed versus extant progenitor midpoints in floral limb shape for (a) *N. tabacum*, (b) *N. rustica*, (c) *N. arentsii*, (d) section *Polydcliae*, and (e) section *Repandae*. Convex polygons include the flower averages of each accession; diploids have solid lines, allotetraploids have dashed lines, and homoploids have dotted lines. The grey triangle in the top right-hand corner of the floral limb shape plots represents physically impossible shapes. Reconstructed progenitors are marked with dotted circles and the reconstructed progenitor midpoint is a square with a dotted black outline. Colored lines connect progenitor midpoints with allopolyploid means (solid=extant; dashed=reconstituted). Lines only drawn for extant midpoint for synthetic polyploids. If reconstructed phenotype similar to extant, only one set of lines is present (a) and (c). Accession abbreviations are found in Figure S6.