



Figure S8 Visualization of additive relationships (*AR*) among 100 selection candidates after a single round of selection either based on random breeding values (*RBV*), estimated breeding values (*EBV*) or true breeding values (*TBV*) for scenario *Re-LD_A-Ped* and for number of parents $N_p = 4$. The strength of the *AR* is represented by the thickness of the lines connecting selection candidates. The figure was computed using the *R*-package *qgraph* based on a single representative simulation run.