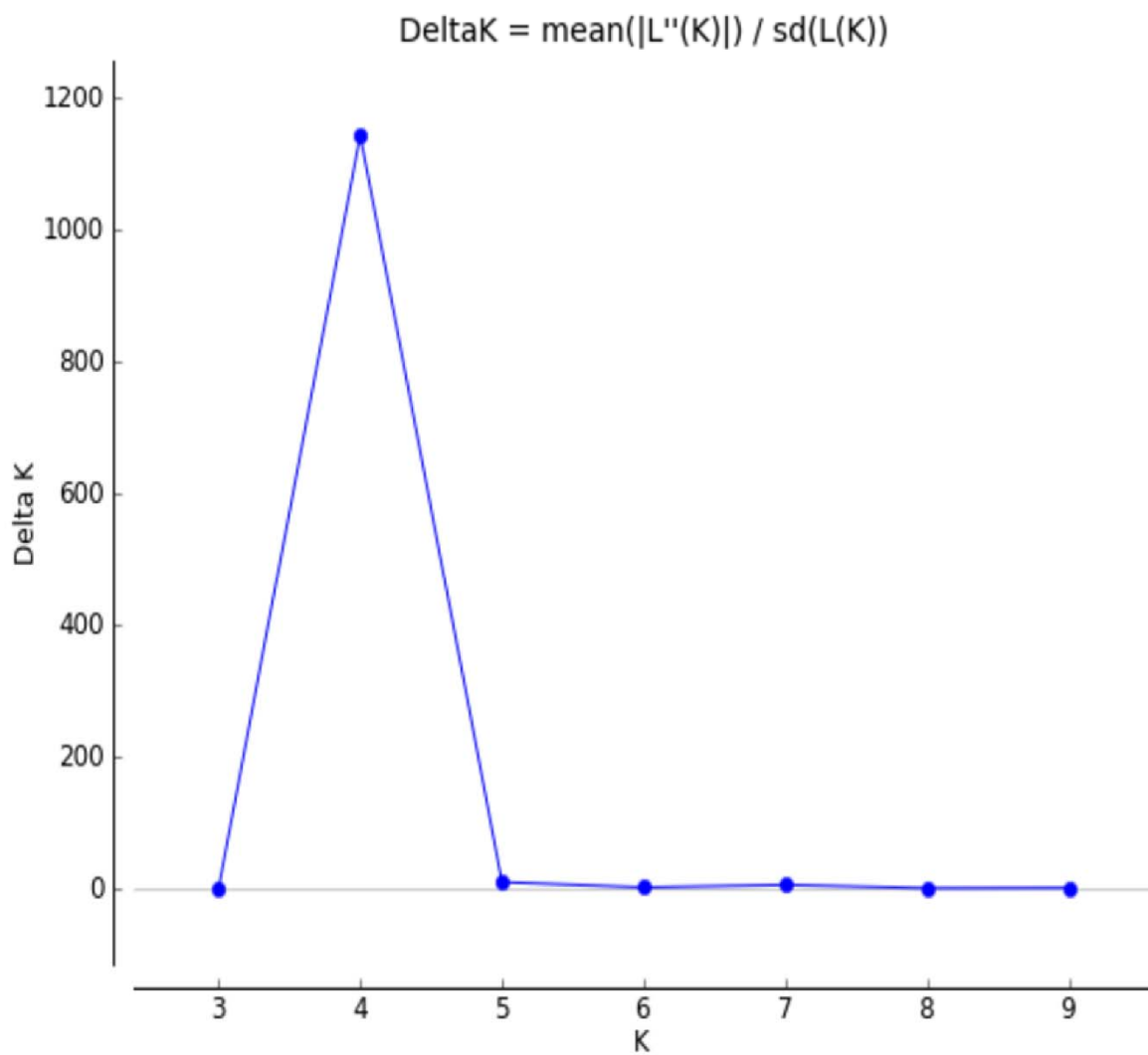


Burnin iterations = 100000  
MCMC iterations = 500000  
Replications = 4



**Figure S2**  $\Delta K$  distribution for various clusters estimated by use of Structure Harvester. Highest  $\Delta K$  value indicate the optimum cluster (K) for the current watermelon population.