Supplementary figures:

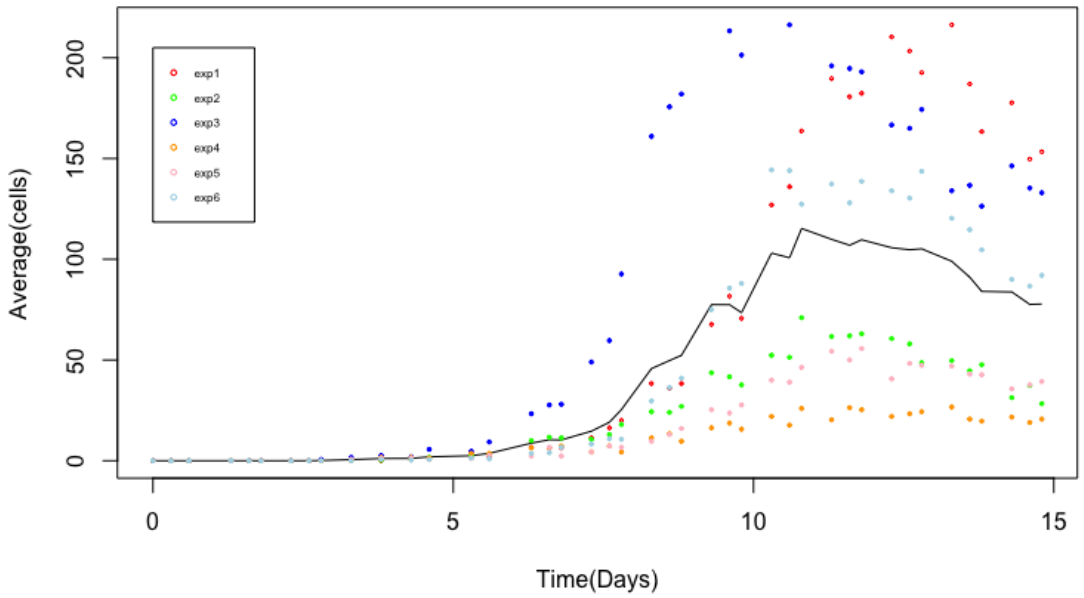

Figure S1: Growth curves for *A.intermedia* when started the experiment with a single cell. Color points represents each one of the single-cell experiments, color legend is in the left corner of the figure. Black line correspond to the average growth between experiments.

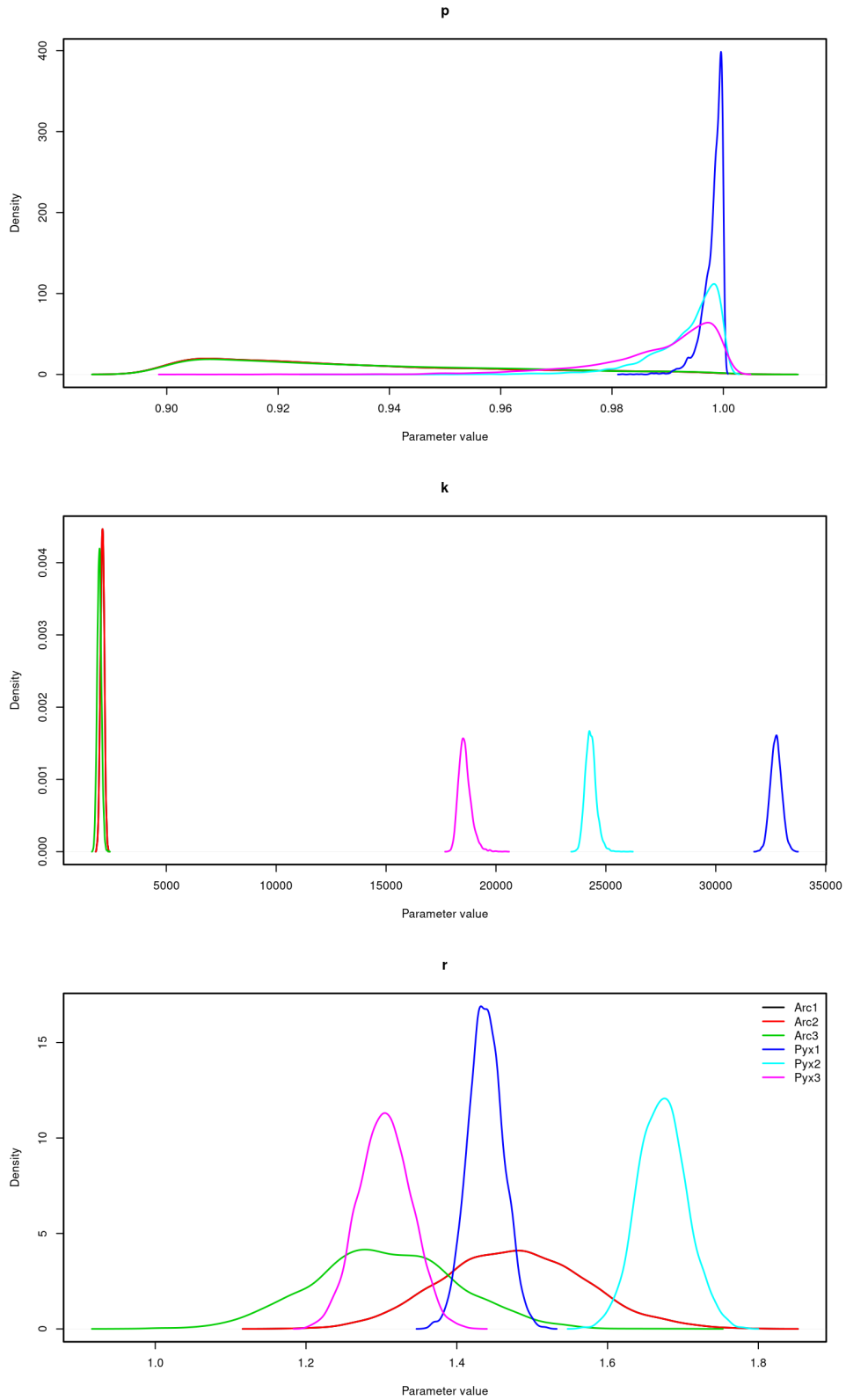

Figure S2: Posterior distributions of the logistic model parameters. The values of K are in cells cm^{-2}, $r = d^{-1}$. P is the detection probability. P has a fixed range between 0.9 and 1. Color lines represents each one of the single-species experiments, color legend is in the right corner of the figure. *A.intermedia* experiments are Arc 1,2 and 3. *P.operculata* experiments are Pyx 1,2 and 3.

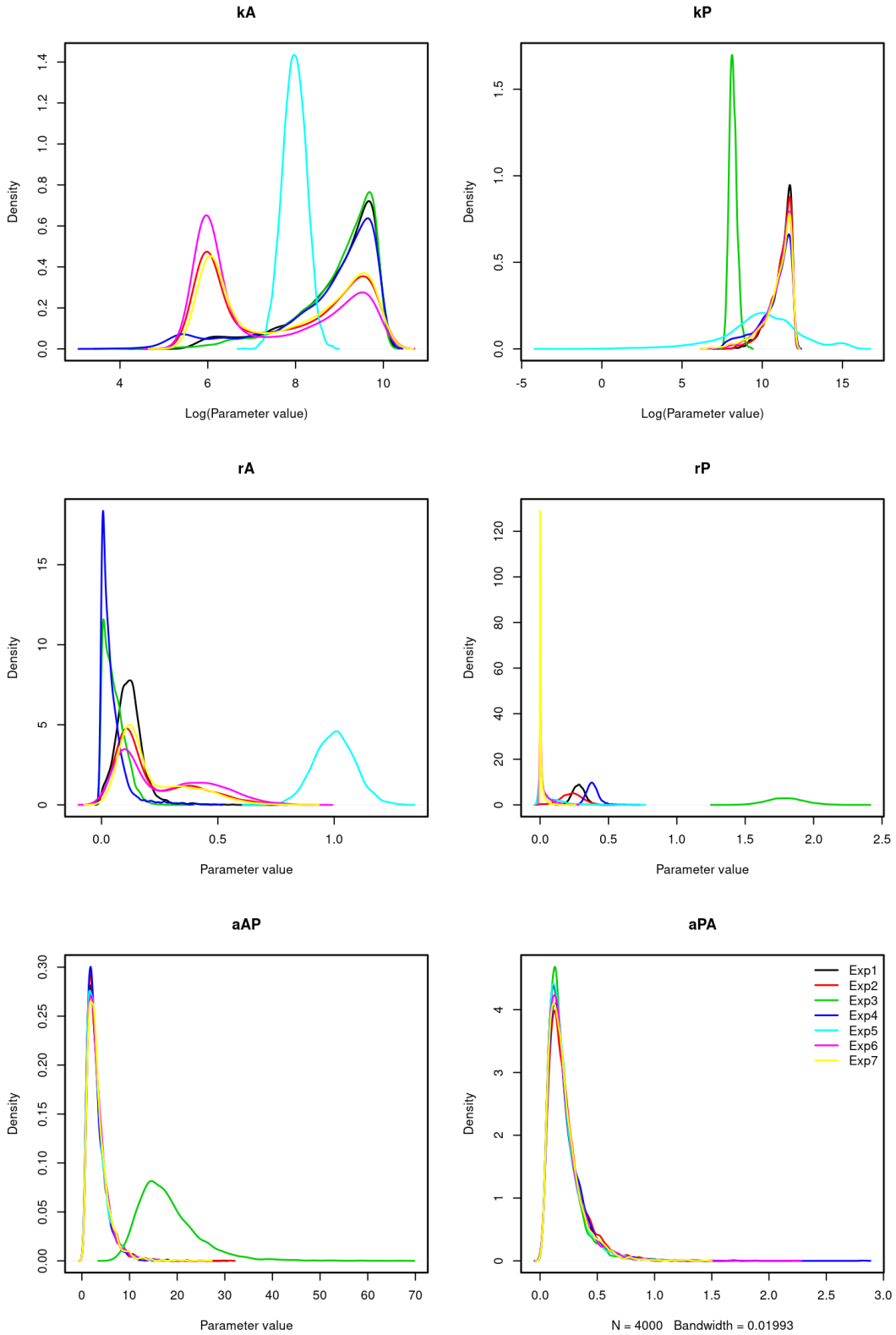

Figure S3: Posterior distributions of the competition model parameters for the species *Arcella intermedia* (A) and *Pyxidicula operculata* (P). Each colored line represent one of the replicates of the competition experiment (color legend shown in the last figure). The values of k are in a logarithmic scale of cells cm^{-2}, r are in days^{-1}. aAP is the competition coefficient of the influence of A species on P (Eq. 3) , whereas aPA is the competition coefficient of the influence of P on A (Eq.4).