Supplemental Figure S1

Comparison of all best-found Jacobians in the selected area around the elite Jacobian
with the mechanistic Jacobian of kinetic model (Yeast)

Comparison of all best-found Jacobians in the selected area around the elite Jacobian
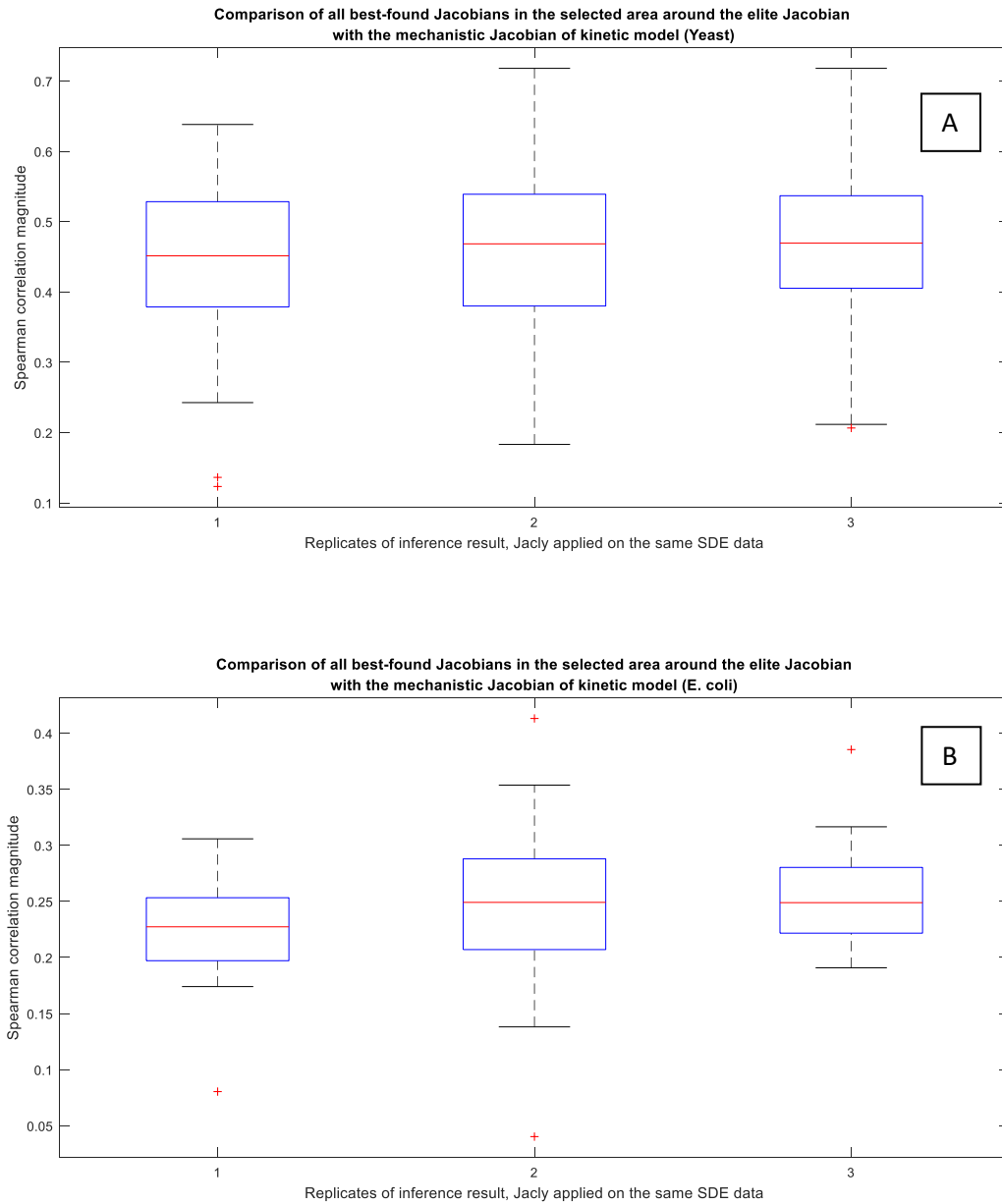with the mechanistic Jacobian of kinetic model (E. coli)

Figure S1: The Spearman correlation between the predicted Jacobian matrix values by JacLy and the calculated values from the kinetic models are shown here for both Yeast and E.coli. JacLy was applied three times (due to its stochastic nature) for each organism, and the correlation was calculated for each of the best-Jacobians determined around the elite Jacobians. The results are given below in the form of boxplots. (a) The results for the yeast. 1: 60 best-found Jacobians, 2: 100 best-found Jacobians, 3: 96 best-found Jacobians. (b) The results for *E. coli*. 1: 12 best-found Jacobians, 2: 100 best-found Jacobians, 3: 11 best-found Jacobians.