



Figure S7. Average results of 50 simulations performed for the plasmid containing cells, employing different values of the δ parameter, which describes uneven segregation of plasmid units between daughter cells. The initial parameters are: uniform distribution described by Eq. 9 with $N_0=20$ (Panel A) and $N_0=5$ (Panel B) ($\alpha=0$). The 3-D plots show distribution of a single cell copy number in a bacterial population for the following parameters: $N_0=20$ and $\delta=0.49$ (C) and $\delta=0.40$ (D).