Online Resource 1. Bacteria were pre-grown for four days at 30°C on glycerol complex agar slants. Growth washed from slants was used to inoculate 500 mL glycerol complex broth to OD$_{750}$ = 0.03 for chemostat broth pre-growth over 21 hours. Chemostat growth rate was then progressively increased from 0% $k_{cell}$ by 10% $k_{cell}$ increments over 13.5 hours. The down arrow indicates the left to right high density to low density growth phase transition.