

Probabilistic models to describe the dynamics of migrating microbial communities

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Supplementary Table S5

A comparison of the average mean and variability (after reaching seemingly stable state) for each taxon relative abundance when a selective advantage is given to the bulk taxon and no advantage or disadvantage is given to the biofilm taxon or carrying capacity buffer

The average was computed in the same way for both the discrete and continuous simulations. For each of the 50 runs, once the system had settled to a seemingly steady state, we computed the mean relative abundance level and the variability about this mean for each of the taxa. The averages presented here are averages of these quantities estimated from 50 independent simulations when selective advantage (α) is given to the bulk taxon and no advantage or disadvantage is given to the biofilm taxon or carrying capacity buffer.

α	Carrying Capacity		Bulk Taxa		Biofilm Taxa	
	<i>Discrete</i>	<i>Continuous</i>	<i>Discrete</i>	<i>Continuous</i>	<i>Discrete</i>	<i>Continuous</i>
0	0	0	0 ± 0.002	0	1 ± 0.002	1
0.02	0	0	0.002 ± 0.012	0 ± 0.006	0.998 ± 0.012	1 ± 0.006
0.04	0	0	0.012 ± 0.036	0.015 ± 0.039	0.988 ± 0.036	0.985 ± 0.039
0.06	0	0	0.208 ± 0.102	0.267 ± 0.107	0.792 ± 0.102	0.733 ± 0.107
0.08	0	0	0.445 ± 0.084	0.493 ± 0.080	0.555 ± 0.084	0.507 ± 0.080
1	0	0	0.549 ± 0.070	0.593 ± 0.064	0.451 ± 0.070	0.407 ± 0.064