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ISME abstract

Micro-scale spatial expansion of microbial cells and mobile genetic elements

Microbes can actively explore their local spatial environment when sufficiently hydrated pathways are present - mobile gene elements can also travel in local environments when cellular density is sufficient. In this presentation, I will present our efforts at predicting the dynamics of these two processes, and how they are affected by physical and biological constraints, using spatially-explicit agent-based models.

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