

Carbon Cycling in Functionally Redundant Closed Microbial Ecosystems

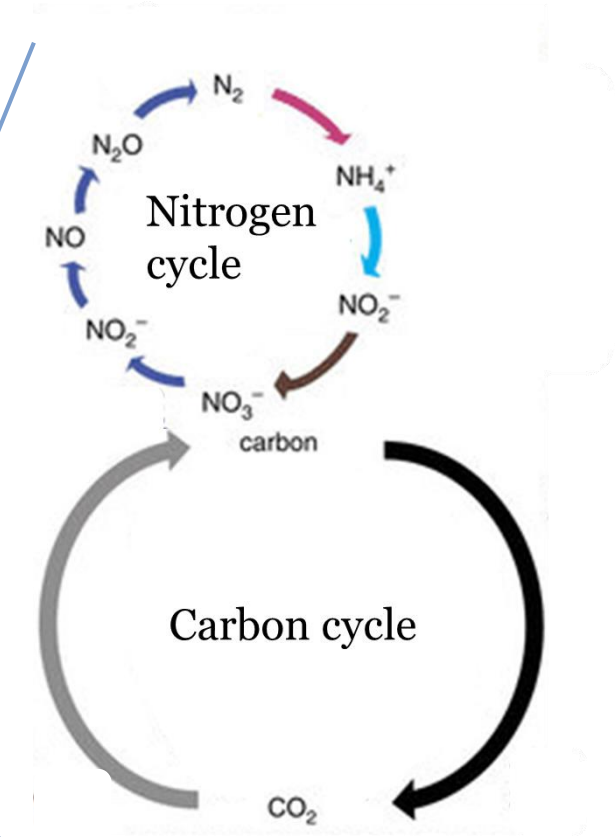
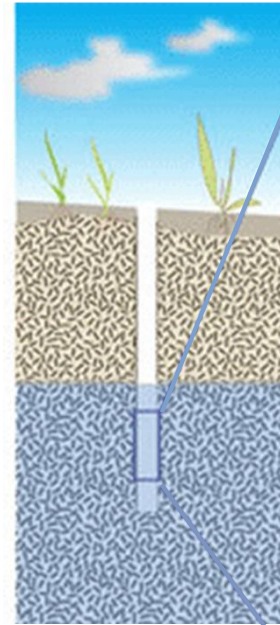
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Illinois URM Physics Workshop

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Nutrient cycles arise at all levels of ecological organization



Globally

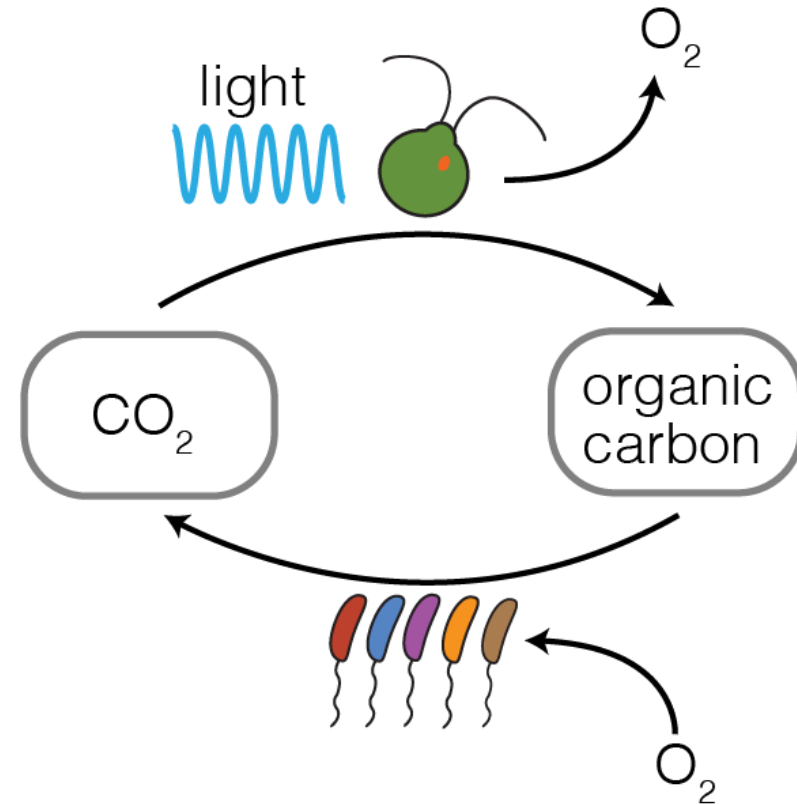


Locally

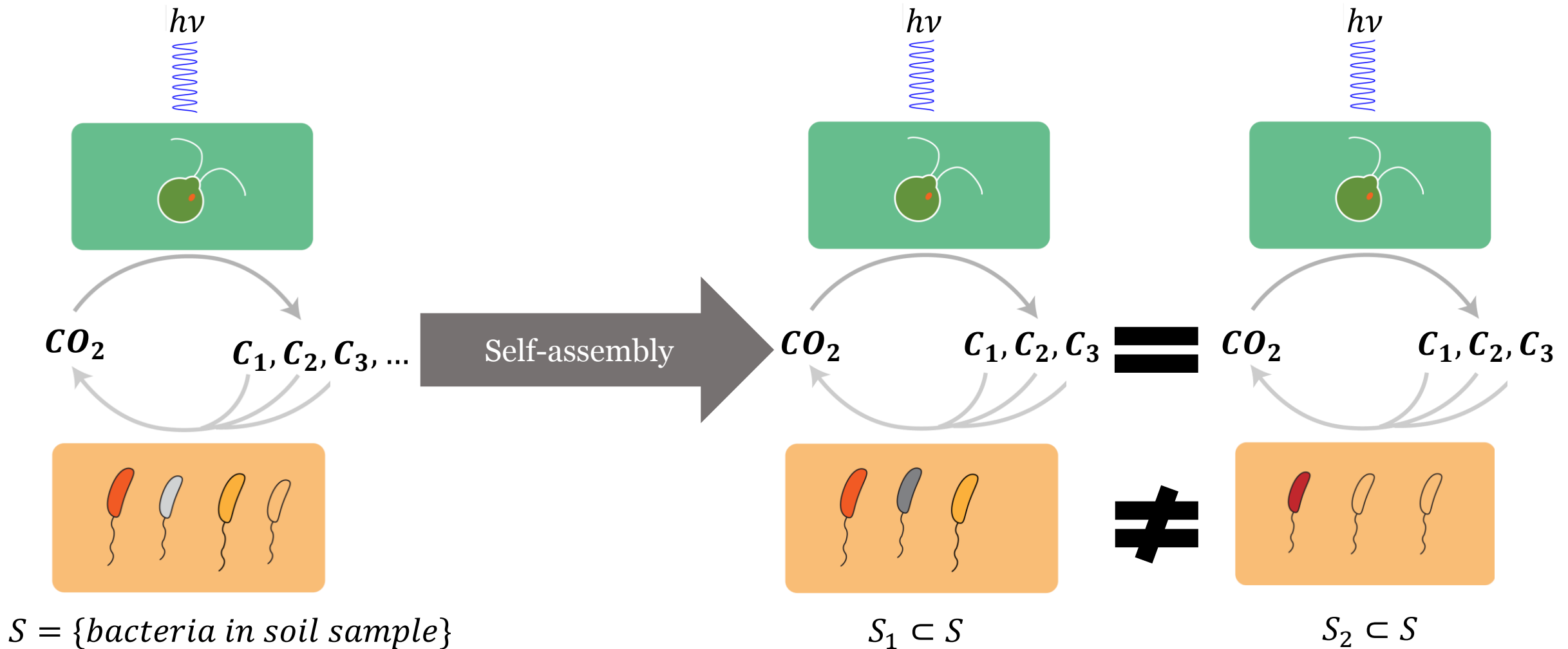
Closed microbial ecosystem (CES) as model of nutrient cycling



EcoSphere



Carbon cycling emerges and persists in functionally redundant CES



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