



Damián Santiago-Sosa

Olchowski/Potter Award
Ph.D. Student, Bioinformatics
First Year ARCS Scholar

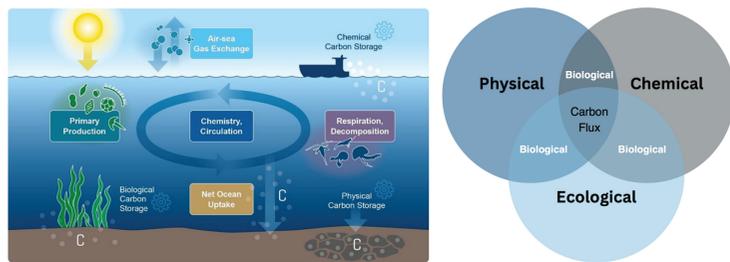


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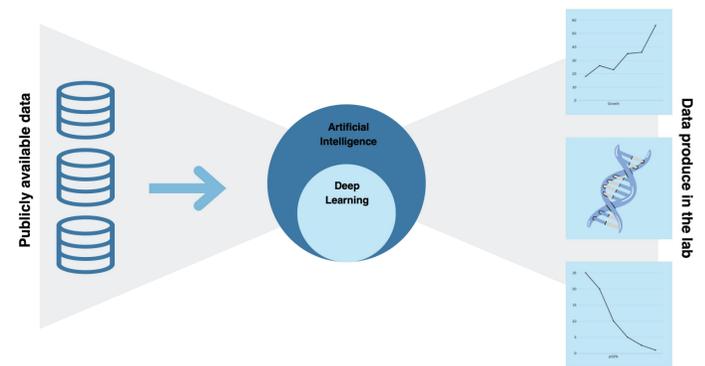
Micro Machines, Macro Impact: Unraveling the Role of Marine Microbes in Global Carbon Flux

We demonstrate the importance of microbial communities in marine environments by integrating metabolism, omics, and growth data. This approach provides a deeper understanding of the functional niches within microbial communities and their roles in the marine ecosystem.

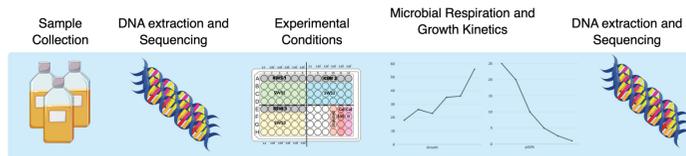
Carbon Flux in aquatic environments



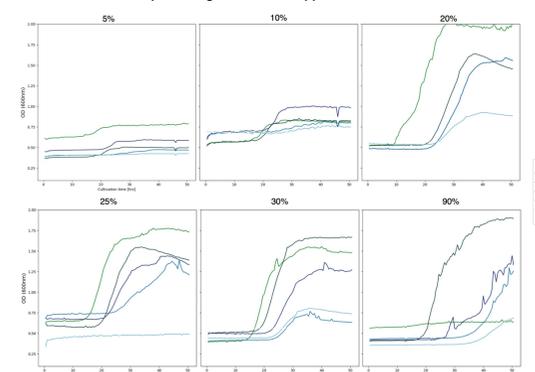
Approach to understand carbon sequestration by microbial communities



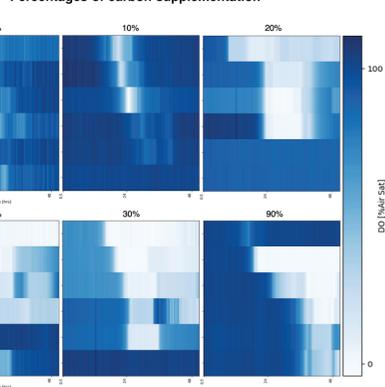
Experimental Workflow



Microbial Growth by dilution of mixed community



Microbial uptake of O₂



Respiration Rates of mixed microbial communities

