



Table S1. Genera identified as potentially within one or more of bacterial functional groups Nitrogen-Fixing or Ammonium Oxidizing, using the scientific articles listed, in addition to the databases mentioned in the text.

N- Fixing	Acidithiobacillus	Desulfotomaculum	Methanosarcina	Rhodospirillum	
	Agrobacterium	Desulfovibrio	Methylobacterium	Rhodovibrio	
	Allochromatium	Devosia	Methylomonas	Roseospira	
	Azoarcus	Dickeya	Oscillospira	Xanthobacter	
	Azospira	Geobacter	Paenibacillus	Zymomonas	
	Azospirillum	Halorhodospira	Paludibacter		
	Azovibrio	Klebsiella	Pantoea		
	Bacillus	Magnetospirillum	Planctomyces		
	Beijerinckia	Mesorhizobium	Pseudomonas		
	Bradyrhizobium	Methanobacterium	Rhizobium		
	Burkholderia	Methanocella	Rhodobacter		
	Clostridium	Methanosaeta	Rhodoplanes		
	Ammonium Oxidizing	Acidovorax	Oscillospira		
		Alcaligenes	Oxalobacter		
Bacillus		Oxobacter			
Burkholderia		Paracoccus			
Comamonas		Planctomyces			
Nitrobacter		Pseudomonas			
Nitrosovibrio		Rhodocyclus			
Nitrospira		Sphingomonas			

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