## Influence of soil microorganisms on ecosystem processes. From Van der Heijen et al. (2007)

Ecosystem process	Microbes involved	Estimated microbial contribution to
		ecosystem process
Carbon cycle		
Plant productivity	Nitrogen fixing bacteria,	0-50%, -50-0%
	mycorrhizal fungi, microbial	
	pathogens	
Decomposition	Bacteria, fungi	Up to 100%
Nitrogen cycle		
Plant nitrogen acquisition		
Nitrogen fixation	Rhizobia, actinomycetes, free-living	0-20%
	bacteria	
Soil uptake	Mycorrhizal fungi	0-80%
Nitrogen loss	,	
Denitrification	Denitrifying bacteria and some	Up to 60%
	fungi	·
Enhanced leaching due to nitrification	Nitrifying bacteria, Archaea	?
Phosphorous cycle	, 0	
Plant phosphorous acquisition	Mycorrhizal fungi, P-solubilising	0-90%
	bacteria	
Phosphorous loss due to leaching after		?
mineralisation		
Regulation of plant diversity		
Stimulation of plant diversity	Arbuscular mycorrhizal fungi,	0-50%
	rhizobia	0 30%
Reduction of plant diversity	Arbuscular mycorrhizal fungi	-20-0%