

Homework 2

Kenna Rewcastle

3/1/2018

This path diagram illustrates **Hypothesis 1**: Decomposition of starch and leaf substrates in a tropical forest is mediated by the above- and below-ground linkages that influence microbial community dynamics.

This path diagram illustrates **Hypothesis 2**: The activity of the microbial community involved in the decomposition of carbon substrates is influenced primarily by edaphic properties. Above-ground plant community and rhizosphere dynamics can impact decomposition indirectly by shaping the belowground abiotic environment.

Table 1: Dip-Switch Test

Rhizosphere Manipulation	Carbon Substrate Addition	Tree Type	Interpretation
+	+	+	Decomposition is affected by the compexity of carl
-	+	+	Functional traits of tree species likely affect decom
+	-	+	All decomposition, regardless of the complexity of
+	+	-	The rhizosphere is an important influence on decor
-	-	+	Decomposition is likely influenced predomoninantly
-	+	-	Decomposition rates are largely determined by the
+	-	-	Roots and mycorrhizae, regardless of aboveground
-	-	-	Decomposition is dominated by the influence of so

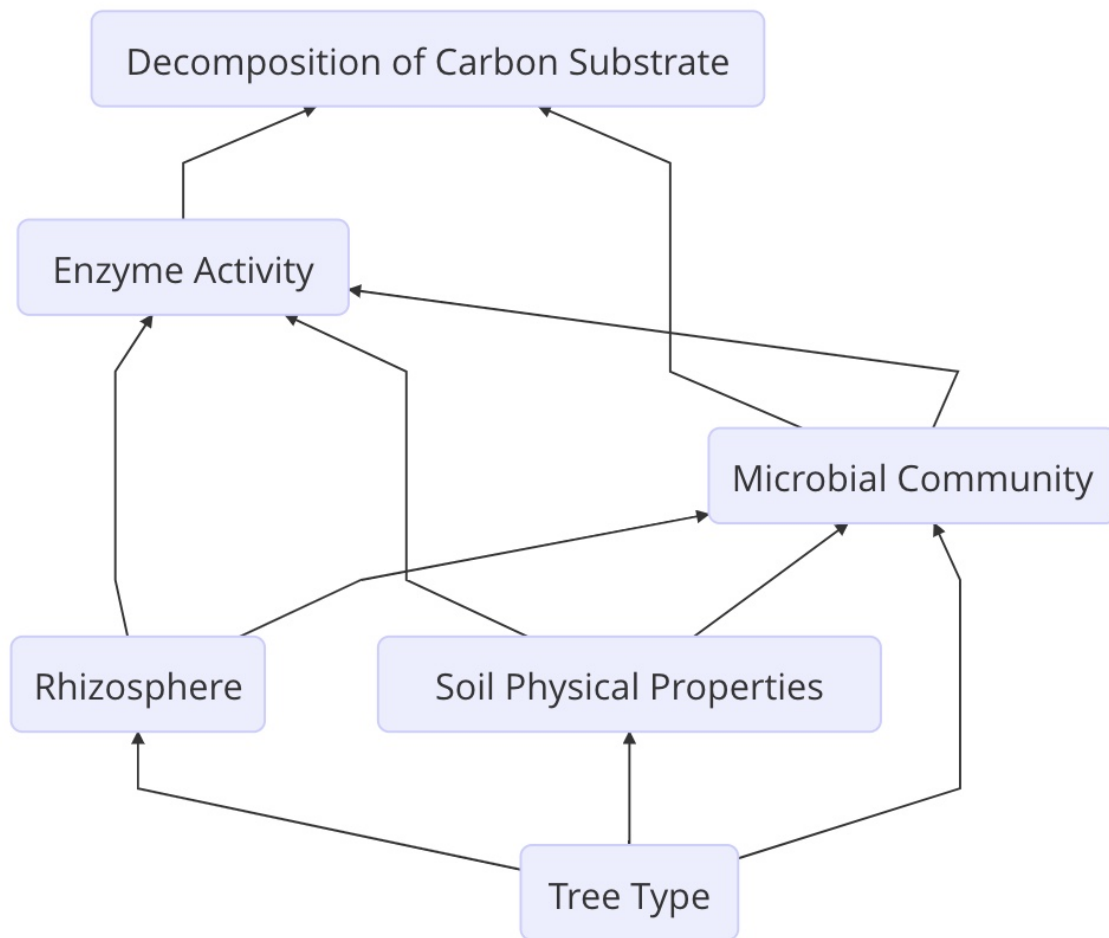


Figure 1:

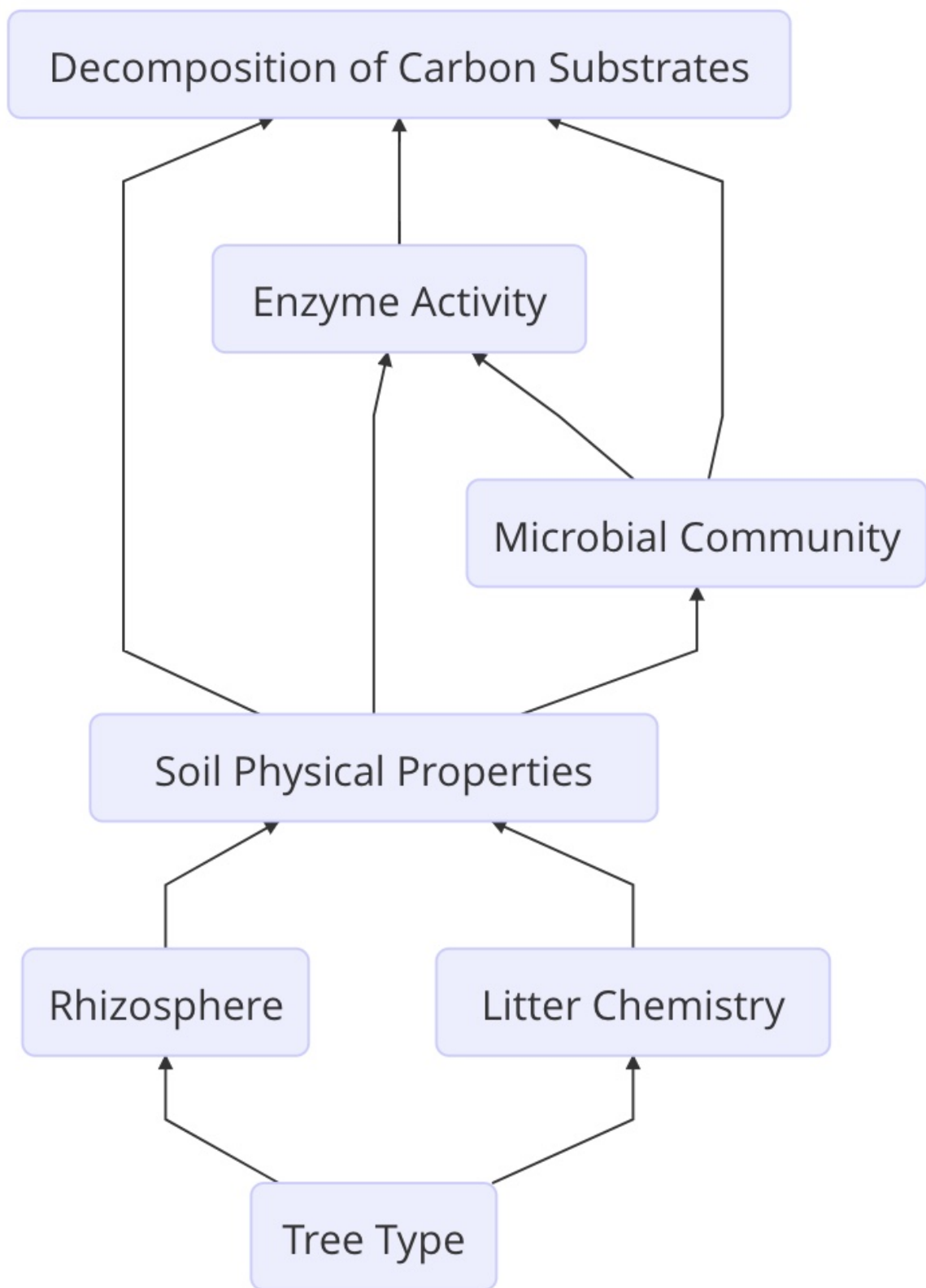


Figure 2:
3