**Soil Fungus Knockout Experiment**

**H0**

**H1**

**↑ Bacterial Abundance**

(due to ↓ competition from fungi)

(insufficient ↑ to overcome fungi loss)

**? Grass Relative Abundance**

**↑ Legume Relative Abundance**

(Since P is the only limiting nut.)

**Community shift to Legume**

**↑ Root:Shoot**

(due to ↑ root biomass)

**↓ % N & P: Grasses**

**↑ %N & ↓ %P: Legumes**

(due to N fixation)

**↑ C:N : Grasses**

**Ø C:N : Legumes**

(due to C fixation and N fixation)

**Ø N:P : Grasses**

**↑ N:P : Legumes**

(due to N fixation)

**Increase Plant Diversity**

(↑ Niche Space for Bacteria)

(↓ Antibacterial Production)

(↑ Bacterial Decomposition)

(↑ Soil N & P Availability)

**↑ Relative Abundance of Plants Assoc. with Bacteria B**

**↑ Bacterial Abundance/Biomass**

(due to ↓ competition from fungi)

**Bacterial Comm. Shift A🡪B**

(more decomposers)

**Ø Soil N & P**

(suggesting ↑ bacterial decomp)

**Ø Soil C**

(suggesting ↑ bacterial decomp)

**↓ Soil N & P Availability**

(due to ↓ fungal decomposition)

**↑ Soil C**

(suggesting ↓ decomposition)