
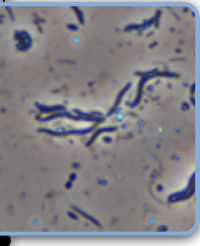


Soil Microbial
Community:
Abundance, Richness,
Community
Behavior



Enumeration:
How many
microbes are
there in a
gram of soil?



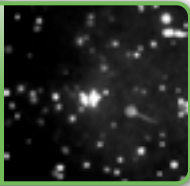
Diversity:
Culture Dependent
Testing

Community
Behavior:
Cooperation &
Competition-
Culture Dependent
Testing

Culture
Dependent
Colony Count



Culture
Independent
Direct Count
Fluorescent
Stain



Community
Level:
Exoenzyme
Prevalence

Example Level:
Interaction
Assay,
Antibiotic
Production

Community
Level:
Carbon
Source
Utilization

Example Level:
Enrichment &
Isolation of
Bacteria of
Selected Groups
to pure culture

Physical & Metabolic
Characteristics Variability:
Motility, Cell wall type,
endospore production,
metabolic diversity

Bacterial
Identification by
16s rRNA gene
sequencing &
RDP classification