

The diagram illustrates the experimental design for four groups: Tide Pool 1 (S1), Tide Pool 2 (S2), Nearshore (N), and Field Blank. Each group has three replicates. The flow of samples is as follows:

- Tide Pool 1 (S1):** Three replicates are collected. Each replicate has three samples: one stored in 100% ethanol, one in -80°C freezer, and one that is analyzed by 16S rRNA sequencing.
- Tide Pool 2 (S2):** Three replicates are collected. Each replicate has three samples: one stored in 100% ethanol, one in -80°C freezer, and one that is analyzed by 16S rRNA sequencing.
- Nearshore (N):** Three replicates are collected. Each replicate has three samples: one stored in 100% ethanol, one in -80°C freezer, and one that is analyzed by 16S rRNA sequencing.
- Field Blank:** Three replicates are collected. Each replicate has three samples: one stored in 100% ethanol, one in -80°C freezer, and one that is analyzed by 16S rRNA sequencing.

The legend indicates that yellow boxes represent 100% ethanol storage, green boxes represent -80°C freezer storage, and purple boxes represent 16S rRNA sequencing.