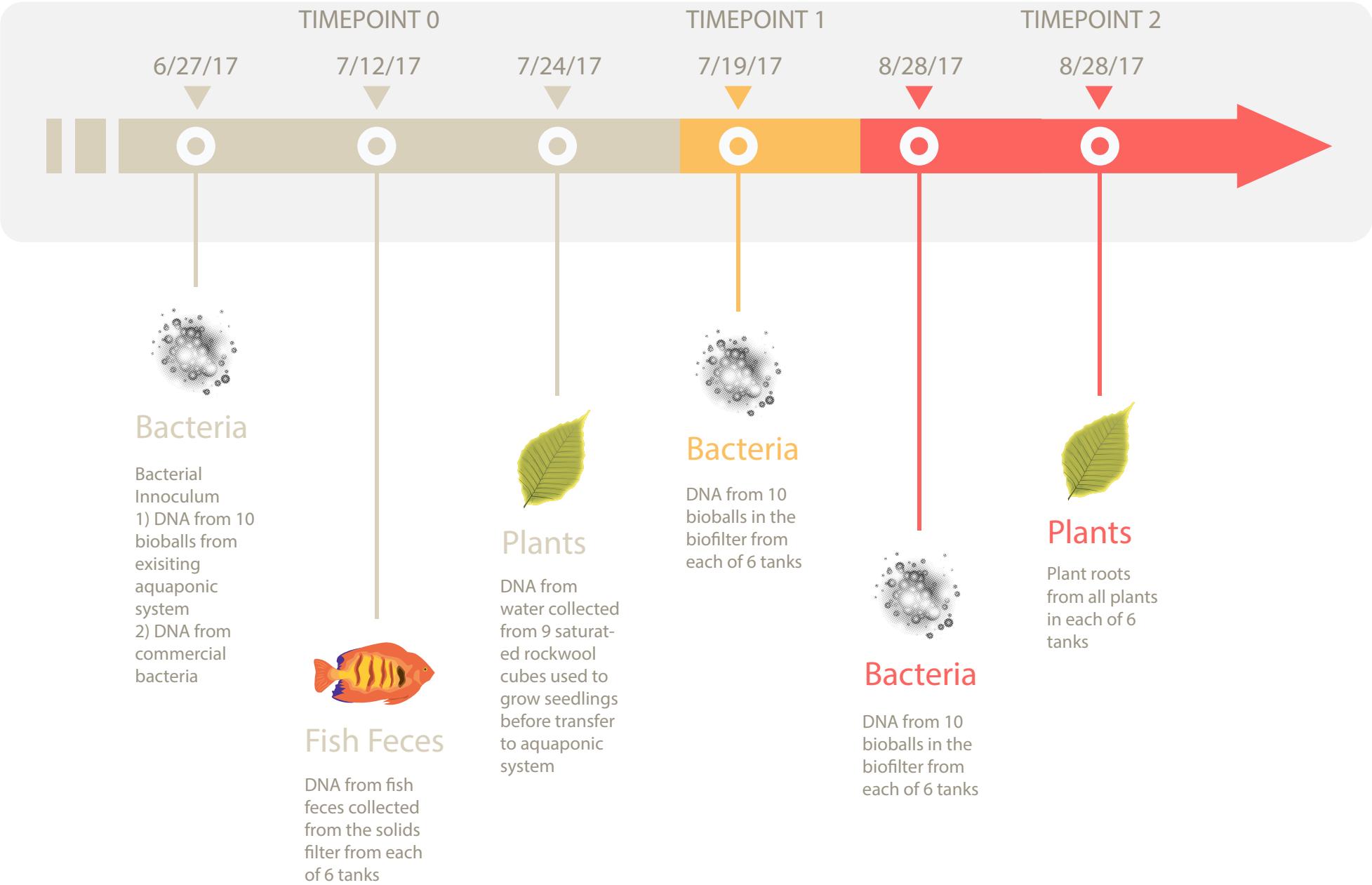
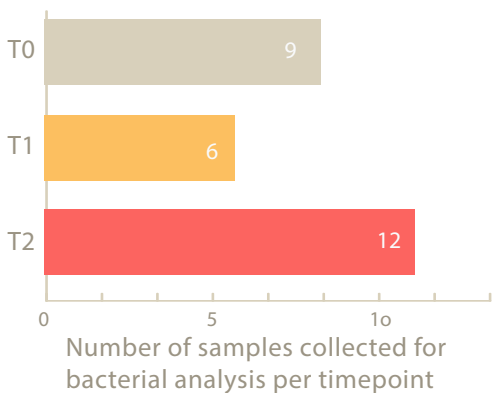


ISB Aquaponic Microbiome Sampling Timeline

Six aquaponic systems in 2 treatments (innoculated with established bacteria vs. commercial bacteria) were monitored over a 2 month period in 2017. Samples were strategically collected from systems at 3 timepoints (0 - bacteria input into system, 1 - bacterial colony during nitrogen cycling, 2 - final system and root-associated bacteria) for microbiome analysis to examine bacterial community establishment over time based on the known inputs into the system.*



*In addition to samples values collected during this 2-month period, water chemistry and plant growth parameters were collected 3 times/week. Water chemistry data includes pH, temperature, ammonia, nitrite, nitrate, chlorine, hardness, and alkalinity. Plant growth parameters include number of leaves, plant height, and root length. At the end of this experiment, wet and dry mass of plants was collected as well as nutrients in leaves including N, P, K, Ca, Mg, Fe, Mn, Cu, and Zn. .

