# Plotly-Challenge

**Belly Button Biodiversity**

In this assignment, you will build an interactive dashboard to explore the Belly Button Biodiversity dataset, which catalogs the microbes that colonize human navels.

The dataset reveals that a small handful of microbial species (also called operational taxonomic units, or OTUs, in the study) were present in more than 70% of people, while the rest were relatively rare.

**Step 1: Plotly**

1. Use the D3 library to read in samples.json.
2. Create a horizontal bar chart with a dropdown menu to display the top 10 OTUs found in that individual.

* Use sample\_values as the values for the bar chart.
* Use otu\_ids as the labels for the bar chart.
* Use otu\_labels as the hovertext for the chart.

1. Create a bubble chart that displays each sample.

* Use otu\_ids for the x values.
* Use sample\_values for the y values.
* Use sample\_values for the marker size.
* Use otu\_ids for the marker colors.
* Use otu\_labels for the text values.

1. Display the sample metadata, i.e., an individual's demographic information.
2. Display each key-value pair from the metadata JSON object somewhere on the page.

Update all of the plots any time that a new sample is selected.

1. Additionally, you are welcome to create any layout that you would like for your dashboard. An example dashboard is shown below:

