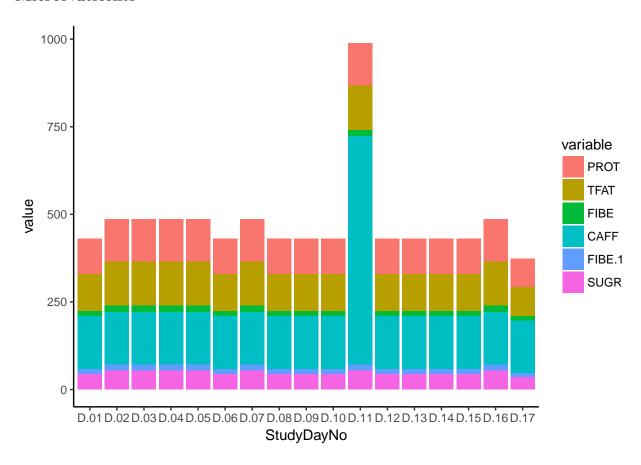
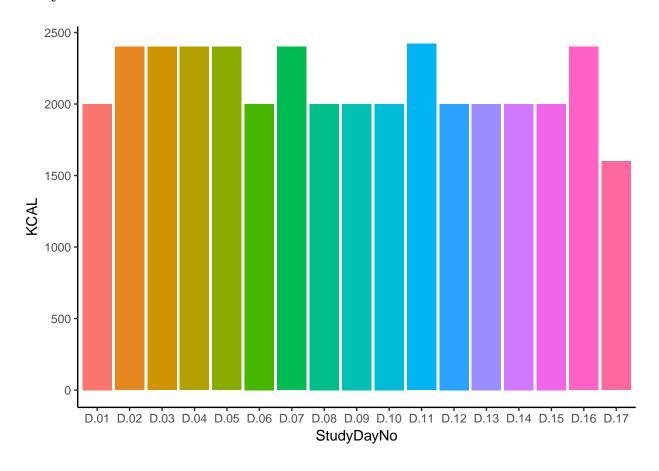
$Subject_38$

CALORIES 2142.43 2080.11 PROTEIN 107.08 88.57 TOTAL FAT 112.44 89.97 CARRS 194.94 225.55	Type	Your Average	Total Average
TOTAL FAT 112.44 89.97	CALORIES	2142.43	2080.11
	PROTEIN	107.08	88.57
CARRS 104.04 225.55	TOTAL FAT	112.44	89.97
CATEDO 134.34 220.00	CARBS	194.94	225.55
FIBER 15.91 21.96	FIBER	15.91	21.96

MicroNutrients



Daily Calorie Intake



Microbiome Daily Relative Abundance

```
# make ggplot bar chart of top 10 most abundant species per day
#melt subtaxasp to get our dataframe in the long format for future usage
meltdf<- melt(subtaxasp)

## Warning in melt.data.table(subtaxasp): To be consistent with reshape2's
## melt, id.vars and measure.vars are internally guessed when both are 'NULL'.
## All non-numeric/integer/logical type columns are conisdered id.vars, which
## in this case are columns [rn]. Consider providing at least one of 'id' or
## 'measure' vars in future.

##merge to get access to Day var</pre>
```

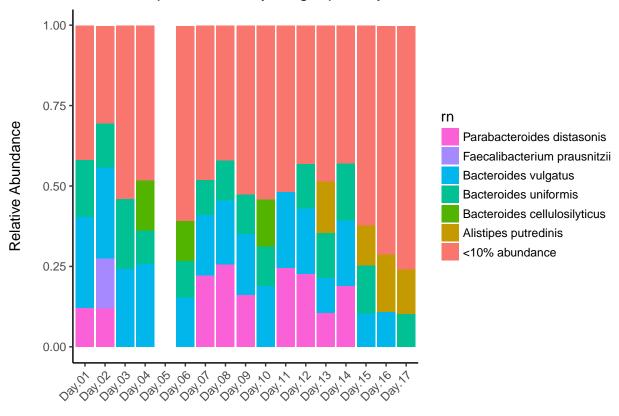
```
#merge to get access to Day var
mergedf<- merge(x=meltdf, y=map, by.x = "variable", by.y= "X.SampleID", all.x=TRUE)

#convert our dataframe species (rn) column to a character
mergedf$rn <- as.character(mergedf$rn)

#series of gsub commands meant to neaten and clarify legend content
mergedf$rn <- gsub(".*s__", "", mergedf$rn)
mergedf$rn <- gsub("\\[", "", mergedf$rn)</pre>
```

```
mergedf$rn <- gsub("\\]", "",mergedf$rn)</pre>
  mergedf$rn <- gsub("_", " ",mergedf$rn)</pre>
  #create <10% abundance category
  mergedf$rn[mergedf$value < 0.1] <- "<10% abundance"</pre>
ggplot(mergedf, aes(x = StudyDayNo, y = value, fill = rn)) +
  geom_bar(stat = "identity") +
  scale_x_discrete(drop = FALSE) +
  theme_classic() +
  theme(strip.text.y = element_text(angle = 0, size = 8, face = "italic"),
        axis.text.x = element_text(angle = 45, hjust = 1),
        axis.title.x = element_blank(),
        plot.title = element_text(hjust = 0.5),
        strip.background = element_rect(color = "grey")) +
  guides(fill = guide_legend(reverse = TRUE,
                              keywidth = 1,
                              keyheight = 1,
                              ncol = 1)) +
  ylab("Relative Abundance\n") +
  ggtitle("Main species within your gut per day")
```

Main species within your gut per day



`geom_smooth()` using method = 'loess'

