Lab 7: Tidying your dataset

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Prune the dataset

Exercise 1

```
brauer2 <- brauer %>% select(-GID,-YORF,-GWEIGHT)
```

Enforcing one observation per row

Exercise 2

```
brauer3 <- brauer2 %>% pivot_longer(

cols = G0.05:U0.3, names_to ="sample", values_to = "expression"
)
```

Enforcing one column per variable and one value per cell

Exercise 3

```
brauer4 <- brauer3%>% separate(
sample,
into = c("nutrient", "rate"), sep =1
)
```

Exercise 4

```
brauer5 <- brauer4 %>% separate (
   NAME,
   into = c("gene_name", "biological_process", "molecular_function", "systematic_id", "number")
   sep = "\\|\\|"
)
```

Exercise 5 -> white space

```
brauer_tidy <- brauer5 %>% mutate_at(vars(gene_name:systematic_id), str_trim)
```

Visualizations using the tidy dataset

Exercise 6

```
brauer_tidy %>%
filter(gene_name == "LEU1") %>%
ggplot()+
geom_line(aes(x= rate, y=expression, color=nutrient, group = nutrient))
```

