Lab 4: Tidying your dataset

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Prune the dataset

```
who1 <- who %>%
 pivot_longer(
    cols = new_sp_m014:newrel_f65,
   names_to = "key",
    values_to = "cases",
    values_drop_na = TRUE
who2 <- who1 %>%
 mutate(key = str_replace(key, "newrel", "new_rel")) %>%
  separate(
    col = key,
    into = combine("new", "type", "sexage"),
    sep = "_"
 )
## Warning: `combine()` was deprecated in dplyr 1.0.0.
## i Please use `vctrs::vec_c()` instead.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

Exercise 1

Enforcing one observation per row

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

Exercise 2

```
brauer3 <- brauer2 %>%

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

```
values_drop_na = TRUE
)
```

Enforcing one column per variable and one value per cell

Exercise 3

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

## Warning: `combine()` was deprecated in dplyr 1.0.0.
## i Please use `vctrs::vec_c()` instead.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```

Exercise 4

```
brauer5 <- brauer4 %>%
  separate(
    col = NAME,
    into = combine("gene_name", "biological_process", "molecular_function", "systematic_id", "notection", "notection", "systematic_id", "notection", "notect
```

warning. combine() was deprecated in dply1 1.0.0.
i Please use `vctrs::vec_c()` instead.
Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
generated.

Exercise 5

```
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, group = nutrient, color= nutrient ))
```

