

Start the database

```
1 from database.database import Database
  from data.constants import dbDetails, dbUser_Krista
  Database.initialize(**dbDetails, **dbUser_Krista)
```

Set up variables

```
2 experiment_name = 'grooming'
  reviewer_name = 'Krista K'
```

Pull in information from database

```
3 from models.experiments import Experiment
  from models.participant_details import ParticipantDetails
  from models.reviewers import Reviewer

  experiment = Experiment.from_db(experiment_name=experiment_name)
  reviewer = Reviewer.from_db(reviewer_fullname=reviewer_name)

4 from database.update_database.update_from_data_dirs import update_from_data_dirs
  update_from_data_dirs(experiment)
```

```
No mouse in the database with mouse number 7044
No mouse in the database with mouse number 7068
No mouse in the database with mouse number 7025
No mouse in the database with mouse number 7076
No mouse in the database with mouse number 747
No mouse in the database with mouse number 7035
No mouse in the database with mouse number 750
```

Get all participants in experiment

```
5 from models.mouse import Mouse

  participant_ids = ParticipantDetails.list_participants(experiment_name)
  mice_in_exp = list()
  for participant_id in participant_ids:
      mice_in_exp.append(Mouse.from_db_by_id(participant_id))
```

Separate by genotype into two lists

```
6 control_mice = list()
  knockout_mice = list()
  for mouse in mice_in_exp:
      if mouse.genotype == 'wild type':
          control_mice.append(mouse)
```

```
else:
    knockout_mice.append(mouse)
```

I want to exclude some animals, here is the current list

7081: Missing 2 days of grooming (G3 & G4) 749, 7025, 7035, 7044, 7068, 7076: Missing after SR grooming (G4)

```
7 exclude = [7081, 749, 7025, 7035, 7044, 7068, 7076]
```

Randomly select 5 animals from each group for review

```
8 knockout_mice_for_analysis = list()
control_mice_for_analysis = list()
while len(knockout_mice_for_analysis) < 5:
    if len(knockout_mice) == 0:
        break
    mouse = knockout_mice.pop()
    while mouse.eartag in exclude:
        if len(knockout_mice) == 0:
            break
        mouse = knockout_mice.pop()
    knockout_mice_for_analysis.append(mouse.eartag)
while len(control_mice_for_analysis) < 5:
    if len(control_mice) == 0:
        mouse = None
        break
    mouse = control_mice.pop()
    while mouse.eartag in exclude:
        if len(control_mice) == 0:
            mouse = None
            break
        mouse = control_mice.pop()
    control_mice_for_analysis.append(mouse.eartag)

9 all_mice_in_grooming = set(control_mice_for_analysis).union(set(knockout_mice_for_analysis))
```

MICE SELECTED ON 20200814

```
10 print(set(all_mice_in_grooming))

{7169, 7043, 7014, 745, 7061, 7062, 7063, 7064, 7065, 7166}
```