Set-up as in grooming_mouseSubsetSelection

```
from database.database import Database
from data.constants import dbDetails, dbUser_Krista
from models.experiments import Experiment
from models.reviewers import Reviewer
from database.update_database.update_from_data_dirs import update_from_data_dirs

Database.initialize(**dbDetails, **dbUser_Krista)
experiment_name = 'grooming'
reviewer_name = 'Krista K'

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

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
```

In order to select the sequences, I'll have to know how the session data is stored either:

1. All videos are present and no prior processing has been completed; or
2. Session folders have 'cut' folders inside of them, containing trials.

In the case of 2, we can easily collect a list of all trials and then sample one per session.

In the case of 1, we can randomly sample a numbers 1-30, and this provides the starting point for looking for a grooming sequence.

Our list of mice for analysis is: 7169, 7043, 7014, 745, 7061, 7062, 7063, 7064, 7065, 7166

First, the mouse details will be loaded from the ParticipantDetails folder in order to obtain a list of all sessions for this animal.

```
from random import randrange
from pathlib import Path

from models.mouse import Mouse
from models.participant_details import ParticipantDetails
from models.sessions import Session

all_eartags = [7169, 7043, 7014, 745, 7061, 7062, 7063, 7064, 7065, 7166]

all_selected_sessions = dict()
for eartag in all_eartags:
    mouse = Mouse.from_db(eartag)
```

```
    mouse_details = ParticipantDetails.from_db(eartag, experiment_name)
    all_sessions = Session.list_all_sessions(mouse, experiment)
    pre_sr_sessions = [session for session in all_sessions if 'G4' not in session.session_dir]
    post_sr_sessions = [session for session in all_sessions if 'G4' in session.session_dir]
    session_timePoints_preSR = list()
    session_timePoints_postSR = list()
    for session in pre_sr_sessions:
        cut_folders = list(Path(session.session_dir).glob('*_cut/'))
        if len(cut_folders) > 0:
            selected_cut_folder = cut_folders.pop()
            trials_in_folders = list(Path(selected_cut_folder).glob('*'))
            selected_timepoint = trials_in_folders.pop()
        else:
            selected_timepoint = randrange(1,30)
        session_timePoints_preSR.append((session.session_dir, selected_timepoint))
    for session in post_sr_sessions:
        cut_folders = list(Path(session.session_dir).glob('*_cut/'))
        if len(cut_folders) > 0:
            selected_cut_folder = cut_folders.pop()
            trials_in_folders = list(Path(selected_cut_folder).glob('*'))
            selected_timepoint = trials_in_folders.pop()
        else:
            selected_timepoint = randrange(1,30)
        session_timePoints_postSR.append({session.session_dir: selected_timepoint})
    if len(post_sr_sessions) == 0:
        selected_timepoint = randrange(1,30)
        session_timePoints_postSR.append(('G4', selected_timepoint))
    all_selected_sessions[eartag] = {'preSR': session_timePoints_preSR, 'postSR': session_time
```

7
```
import pprint
pprint.pprint(all_selected_sessions)
```

```
{745: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_20190507_C
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_20181130_CC
                  PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_2
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_20181207_CC
                  PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_2
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_20181214_CC
                  PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et745/et745_2
 7014: {'postSR': [('G4', 12)],
        'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7014/et7014_20191111
                   16),
                  ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7014/et7014_20200602
                   17),
                  ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7014/et7014_20191119
                   19)]},
 7043: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7043/et7043_2019110
        'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7043/et7043_20190822
                   12),
                  ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7043/et7043_20190809
                   27),
                  ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7043/et7043_20190819
                   3)]},
 7061: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et7061_2019091
        'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et7061_20190527
                   PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et706
                  ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et7061_20190502
```

```
                 PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et706
                ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et7061_20190514
                 PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7061/et706
7062: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7062/et7062_2019091
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7062/et7062_20190515
                  4),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7062/et7062_20190502
                  PosixPath('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7062/et706
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7062/et7062_20190527
                  6)]},
7063: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7063/et7063_2019092
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7063/et7063_20190514
                  2),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7063/et7063_20190527
                  27),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7063/et7063_20190502
                  22)]},
7064: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7064/et7064_2019091
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7064/et7064_20190515
                  4),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7064/et7064_20190502
                  1),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7064/et7064_20190527
                  28)]},
7065: {'postSR': [{'/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7065/et7065_2019092
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7065/et7065_20190502
                  4),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7065/et7065_20190527
                  20),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7065/et7065_20190515
                  25)]},
7166: {'postSR': [('G4', 26)],
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7166/et7166_20191122
                  18),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7166/et7166_20200602
                  9),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7166/et7166_20191115
                  6),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7166/et7166_20191108
                  3)]},
7169: {'postSR': [('G4', 14)],
       'preSR': [('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7169/et7169_20200602
                  24),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7169/et7169_20191115
                  3),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7169/et7169_20191122
                  1),
                 ('/Volumes/SharedX/Neuro-Leventhal/data/mouseGrooming/et7169/et7169_20191108
                  17)]}}
```