**Bio211 Biostatistics and Experimental Design Winter Term 2018**

**Lab 4 Seed Dispersal**

**January 22, 2018**

Goals: Perform an experiment related to seed dispersal in order to create a dataset we can use to understand non-parametric distributions

Test if the weight of the bract and/or the number of seeds is related to dispersal distance.

Seeds are critical life stages for a plant and successful seed dispersal is a first step to successful reproduction. Generally, plants want to disperse their seeds far away from themselves so their offspring do not compete for resources. Plants use a variety of ways to disperse their seeds; think about fruits, nuts, seeds that stick to clothing, seeds that fly in the wind, etc. Today, we are going to investigate how the dispersal of linden tree seeds is related to the weight of the seed bract and/or the number of seeds in the bract.

Protocol:

This will be done in 4 groups. Each group will take turns running the experiment outside due to a limited number of seeds.

1. Write a number on the bract

2. Record the number of seeds

3. Record the weight

4. Take the bract outside

5. Record time in the air

6. Record distance

7. **Record your data in the Google sheet!**