**Dung beetle collection**

1. **General introduction (Fred and comments from the group)**

Taxonomic diversity of dung beetles and their food preferences

Effects of climate change on dung beetles…

Introduce our study, hypotheses, and questions….

1. **Methodology**
2. Study area (map and description of the area: Miranda to make the map, Fred to describe the area)
3. Data collection
4. Fieldwork (Everyone who attended fieldwork will contribute to the sampling design, number of samples etc.

**Dung beetle collection**

The data were collected in November 2022. We first identified two different climatic zones (tropical and subtropical) in Yunnan province in China. We selected Ailaoshan mountains as a representative of subtropical climate and Bubeng (a rainforest and a rubber plantation) as a representative of tropical climate. To capture the dung beetles, we installed 14 pitfall traps in two different sites at the subtropical forest, 14 at the rubber plantation, and 12 at the tropical rainforest, ca. 100m apart. The traps consisted of a plastic container (20cm in diameter and 5cm deep) filled with 200ml of water, covered with a lid elevated with chop sticks to ca. 15cm above the ground to keep off rain water and forest debris. We baited each trap with approximately 20g of human faeces to attract coprophagous beetles. We collected the beetles after every 24 hours for 48 hours, and kept them at room temperature in an aerated transparent box (10cm long, 5cm wide, and 5cm high), filled up to about a quarter with forest soil. We fed the beetles with cow dung until they were transported to the laboratory at Xishuangbanna Tropical Botanical Garden (XTBG). The species were identified through consultation with specialists at XTBG, where the collected individuals also deposited.

1. Lab work (Hanchen to help with the initial draft)
2. Data analysis (statistical methods: Miranda will help with data analysis and a draft of the procedure)
3. **Results (statistical and results from the lab: Hanchen and Miranda will provide the initial results/draft)**
4. **Discussion (will depend on the results)**

**References**

Appendix (raw data from lab: only my suggestion)