Hi Maria,

We are consulting group 2. Now let me briefly summarize our progress this week.

We did two kinds of tests this week, and what we found is the following：

1. Mann Whitney U Test

First, we used R package to do Mann-Whitney U Test and we found that except Cottontail of d15N\_air, other isotopes of animals in two sites can be considered the same. (Plus, the p-value we got is not the same as p-value in your Word annotation, but the conclusions are the same.)

Because we found that Cottontail of d15N\_air test rejects the null hypothesis due to p-value. We want to check Mann-Whitney U Test without R package again. The answer is there is 95% probability that Cottontail of d15N\_air in the two sites is the same.

2. T-test

We checked the significance of three isotope levels for four kinds of animals between two sites by using T-test.

Before we tested, we firstly checked the distribution of all the isotope levels. Although we can see they all have different distribution and not normal, we still use the two-sample t test since the result of Shapiro tests shows that the data are not significantly different from the normal distribution at 95% confidence interval.

After we tested, the results show that we cannot reject the assumptions which is the isotope level of animals are the same at the 95% confidence interval, except N15 of cottontails, which is same as the highlight part in the summary table.

We will keep you updated again on our progress at the end of next week.

Best,

Coco

Hi Maria,

We are consulting group 2. Now let me briefly summarize our progress this week.

We did two kinds of tests this week, Mann Whitney U Test and T test. Both two tests show that the isotope level of animals are the same at the 95% confidence interval, except N15 of cottontails.

We will keep you updated again on our progress at the end of next week.

Best,

Coco