**Table S2:** Statistical results of repeated measures ANOVAs with time as within-subjects factor and location as between-subjects factors.

1. Assumptions tests

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Since the Mauchly’s test of sphericity is failed, we will use Greenhouse-Geisser correction for the degrees of freedom.



Levene’s test of equality of error variances is passed.

1. Within-subjects effects, between-subjects effects, and interaction

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Using Greenhouse-Geisser method to adjust the degrees of freedom, the result reveals the significant effect from the interaction between time and location (*F* (5.443, 40.824) =11.730, *P* < 0.001). No significant effect from time is observed (*F* (2.722, 40.824) =.000, *P*=1.000), which makes sense because the average value of percentages of all data in each time interval is equal to 33.33%.



There is no significant effect from location (*F* (2, 15)=2.591, *P*=0.108).

1. **Pairwise Comparison on each Time-interval**

Based on the results in B, we are interested in the comparison of locations on each time-interval. Even though this is a time series, but the effect from time is not significant. We used One-Way ANOVA with Tukey’s Honest Significant Differences (HSD) tests. The corresponding time series figures (Mean ± SE) is presented in Fig. 4b.



