Table 1: Assess how much variance is explained by transect

Urbanization = Distance to the City Center

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Family) + Transect\_ID + City\_dist + Transect\_ID:City\_dist

PVE for population: 46.866. PVE for family: 36.727

| Variable | Group | p |
| --- | --- | --- |
| Peduncles: 2022 | Family | **<0.001** |
| Population | 0.117 |

Table 2: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2022 | Block | 8.971 | **0.03\*** |
| Subtransect | 0.277 | 0.599 |
| Distance to City Center | 0.025 | 0.873 |
| Subtransect x Distance to City Center | 1.017 | 0.313 |

Table 3: Assess how much variance is explained by transect

Urbanization = Urbanization Score

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Family) + Transect\_ID + Urb\_score + Transect\_ID:Urb\_score

PVE for population: 43.528. PVE for family: 32.374

| Variable | Group | p |
| --- | --- | --- |
| Peduncles: 2022 | Family | **<0.001** |
| Population | 0.157 |

Table 4: Quantify variance explained by transect

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Peduncles: 2022 | (Intercept) | 61.699 | **<0.001\*\*\*** |
| Block | 7.667 | 0.053 |
| Subtransect | 1.437 | 0.231 |
| Urbanization Score | 3.185 | 0.074 |
| Subtransect x Urbanization Score | 3.084 | 0.079 |