Table 1: Test for variance among families and populations

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

PVE for population: 8.917. PVE for family: 11.415

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2022 | Family | 0.4965 |
| Population | **0.035** |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

PVE for population: 8.935. PVE for family: 11.466

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2022 | Family | 0.5 |
| Population | **0.035** |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2022 | Block | 1.911 | 0.591 |
| Distance to City Center | 0.015 | 0.902 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Peduncles ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

PVE for population: 9.028. PVE for family: 11.244

| Variable | Group | p |
| --- | --- | --- |
| Inflorescences: 2022 | Family | 0.5 |
| Population | **0.04** |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | Ï‡2 | p |
| --- | --- | --- | --- |
| Inflorescences: 2022 | Block | 1.954 | 0.582 |
| Urbanization Score | 0.258 | 0.611 |