Table 1: Test for variance among families and populations

Model: Julian\_first\_follicle - 200 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq)

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| First follicle: 2020 | Family | 0.003 | 8.013 | 5.761 | 1 | **0.008** |
| First follicle: 2020 | Population | 0.041 | 54.743 | 0.000 | 1 | 0.5 |

Table 2: Assess how much variance is explained by urbanization

Urbanization = Distance to the City Center

Model: Julian\_first\_follicle - 200 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + City\_dist

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| First follicle: 2020 | Family | 0.002 | 4.333 | 3.985 | 1 | **0.023** |
| First follicle: 2020 | Population | 0.032 | 48.555 | 0.000 | 1 | 0.5 |

Table 3: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| First follicle: 2020 | Block | 1.642 | 0.65 |
| Distance to City Center | 2.165 | 0.141 |

Table 4: Assess how much variance is explained by urbanization

Urbanization = Urbanization Score

Model: Julian\_first\_follicle - 200 ~ Block + (1 | Population) + (1 | Population:Fam\_uniq) + Urb\_score

| Variable | Group | Variance | PVE | χ2 | df | p |
| --- | --- | --- | --- | --- | --- | --- |
| First follicle: 2020 | Family | NA | NA | 2.046 | 1 | 0.0765 |
| First follicle: 2020 | Population | 0.022 | 39.239 | 0.000 | 1 | 0.5 |

Table 5: Quantify variance explained by urbanization

| Variable | Predictor | χ2 | p |
| --- | --- | --- | --- |
| First follicle: 2020 | Block | 1.724 | 0.632 |
| Urbanization Score | 5.219 | **0.022\*** |