**Output with Quadrupedal Stand as the Outgroup:**

Linear mixed model fit by REML ['lmerMod']

Formula: therm\_t ~ pos\_beh + amb\_t + sun + date + hab\_type + (1 | individual)

Data: prelim\_temp3

REML criterion at convergence: 3134.4

Scaled residuals:

Min 1Q Median 3Q Max

-3.09318 -0.62833 0.02685 0.60039 3.11356

Random effects:

Groups Name Variance Std.Dev.

individual (Intercept) 0.3788 0.6155

Residual 2.7352 1.6538

Number of obs: 804, groups: individual, 12

Fixed effects:

Estimate Std. Error t value

(Intercept) 626.512999 127.280001 4.922

pos\_behLy -1.468689 0.321678 -4.566

pos\_behSq -0.831725 0.690810 -1.204

pos\_behSt -0.097311 0.259671 -0.375

pos\_behQW -0.187070 0.274740 -0.681

pos\_behBp -0.555998 0.281731 -1.974

pos\_behSu 0.160764 0.578995 0.278

pos\_behVC -0.357375 0.414345 -0.863

amb\_t 0.270917 0.017116 15.828

sun 0.048866 0.002927 16.697

date -0.034016 0.007182 -4.736

hab\_typeBMWD 0.429247 0.796962 0.539

hab\_typeGA 1.087375 0.792719 1.372

hab\_typeGL 0.783744 0.814616 0.962

hab\_typeWD 0.777383 0.761911 1.020

Confidence Intervals:

2.5 % 97.5 %

.sig01 0.35441408 0.972738671

.sigma 1.56195777 1.723853725

(Intercept) 379.48665144 880.066999447

pos\_behLy -2.09161587 -0.838901705

pos\_behSq -2.17573462 0.511719731

pos\_behSt -0.60130464 0.409108085

pos\_behQW -0.71990772 0.349380577

pos\_behBp -1.10447747 -0.008411612

pos\_behSu -0.96197465 1.291468192

pos\_behVC -1.16311712 0.448806985

amb\_t 0.23619366 0.304042058

sun 0.04321739 0.054649145

date -0.04832081 -0.020078689

hab\_typeBMWD -1.13786609 1.969683385

hab\_typeGA -0.45702016 2.627015622

hab\_typeGL -0.80590089 2.364109309

hab\_typeWD -0.70628294 2.257931549

**With Quadrupedal Walk as the Outgroup:**

Linear mixed model fit by REML ['lmerMod']

Formula: therm\_t ~ pos\_beh + amb\_t + sun + date + hab\_type + (1 | individual)

Data: prelim\_temp3

REML criterion at convergence: 3134.4

Scaled residuals:

Min 1Q Median 3Q Max

-3.09318 -0.62833 0.02685 0.60039 3.11356

Random effects:

Groups Name Variance Std.Dev.

individual (Intercept) 0.3788 0.6155

Residual 2.7352 1.6538

Number of obs: 804, groups: individual, 12

Fixed effects:

Estimate Std. Error t value

(Intercept) 626.325938 127.289454 4.920

pos\_behLy -1.281619 0.251652 -5.093

pos\_behSq -0.644655 0.663008 -0.972

pos\_behSt 0.089759 0.166191 0.540

pos\_behQS 0.187070 0.274740 0.681

pos\_behBp -0.368928 0.195171 -1.890

pos\_behSu 0.347833 0.544247 0.639

pos\_behVC -0.170305 0.363254 -0.469

amb\_t 0.270917 0.017116 15.828

sun 0.048866 0.002927 16.697

date -0.034016 0.007182 -4.736

hab\_typeBMWD 0.429247 0.796962 0.539

hab\_typeGA 1.087375 0.792719 1.372

hab\_typeGL 0.783744 0.814616 0.962

hab\_typeWD 0.777383 0.761911 1.020

**Confidence Intervals**

|  |
| --- |
| 2.5 % 97.5 %  .sig01 0.35441408 0.972738672  .sigma 1.56195777 1.723853725  (Intercept) 379.28073682 879.903130785  pos\_behLy -1.76970696 -0.790294835  pos\_behSq -1.93649839 0.643028791  pos\_behSt -0.23411836 0.412465570  pos\_behQS -0.34938058 0.719907717  pos\_behBp -0.75117232 0.008858555  pos\_behSu -0.70879773 1.408821118  pos\_behVC -0.87855090 0.534794248  amb\_t 0.23619366 0.304042058  sun 0.04321739 0.054649145  date -0.04832081 -0.020078689  hab\_typeBMWD -1.13786609 1.969683385  hab\_typeGA -0.45702016 2.627015622  hab\_typeGL -0.80590089 2.364109309  hab\_typeWD -0.70628294 2.257931549 |
|  |

**With Sit as the Outgroup:**

Linear mixed model fit by REML ['lmerMod']

Formula: therm\_t ~ pos\_beh + amb\_t + sun + date + hab\_type + (1 | individual)

Data: prelim\_temp3

REML criterion at convergence: 3134.4

Scaled residuals:

Min 1Q Median 3Q Max

-3.09318 -0.62833 0.02685 0.60039 3.11356

Random effects:

Groups Name Variance Std.Dev.

individual (Intercept) 0.3788 0.6155

Residual 2.7352 1.6538

Number of obs: 804, groups: individual, 12

Fixed effects:

Estimate Std. Error t value

(Intercept) 626.415947 127.277502 4.922

pos\_behLy -1.371378 0.228416 -6.004

pos\_behSq -0.734414 0.650438 -1.129

pos\_behQS 0.097311 0.259671 0.375

pos\_behQW -0.089759 0.166191 -0.540

pos\_behBp -0.458687 0.174717 -2.625

pos\_behSu 0.258075 0.535404 0.482

pos\_behVC -0.260064 0.351434 -0.740

amb\_t 0.270917 0.017116 15.828

sun 0.048866 0.002927 16.697

date -0.034016 0.007182 -4.736

hab\_typeBMWD 0.429247 0.796962 0.539

hab\_typeGA 1.087375 0.792719 1.372

hab\_typeGL 0.783744 0.814616 0.962

hab\_typeWD 0.777383 0.761911 1.020

**Confidence Intervals:**

2.5 % 97.5 %

.sig01 0.35441409 0.97273872

.sigma 1.56195777 1.72385373

(Intercept) 379.39341032 879.96843350

pos\_behLy -1.81385168 -0.92448561

pos\_behSq -2.00121076 0.52939063

pos\_behQS -0.40910808 0.60130464

pos\_behQW -0.41246557 0.23411836

pos\_behBp -0.80039773 -0.12026520

pos\_behSu -0.78088718 1.30258071

pos\_behVC -0.94465942 0.42255711

amb\_t 0.23619366 0.30404206

sun 0.04321739 0.05464915

date -0.04832081 -0.02007869

hab\_typeBMWD -1.13786609 1.96968339

hab\_typeGA -0.45702016 2.62701562

hab\_typeGL -0.80590089 2.36410931

hab\_typeWD -0.70628294 2.25793155

**With Bipedalism as the Outgroup:**

Linear mixed model fit by REML ['lmerMod']

Formula: therm\_t ~ pos\_beh + amb\_t + sun + date + hab\_type + (1 | individual)

Data: prelim\_temp3

REML criterion at convergence: 3134.4

Scaled residuals:

Min 1Q Median 3Q Max

-3.09318 -0.62833 0.02685 0.60039 3.11356

Random effects:

Groups Name Variance Std.Dev.

individual (Intercept) 0.3788 0.6155

Residual 2.7352 1.6538

Number of obs: 804, groups: individual, 12

Fixed effects:

Estimate Std. Error t value

(Intercept) 625.957084 127.310318 4.917

pos\_behLy -0.912691 0.258308 -3.533

pos\_behSq -0.275727 0.666034 -0.414

pos\_behSt 0.458687 0.174717 2.625

pos\_behQW 0.368928 0.195171 1.890

pos\_behQS 0.555998 0.281731 1.974

pos\_behSu 0.716762 0.547155 1.310

pos\_behVC 0.198623 0.365344 0.544

amb\_t 0.270917 0.017116 15.828

sun 0.048866 0.002927 16.697

date -0.034016 0.007182 -4.736

hab\_typeBMWD 0.429247 0.796962 0.539

hab\_typeGA 1.087375 0.792719 1.372

hab\_typeGL 0.783744 0.814616 0.962

hab\_typeWD 0.777383 0.761911 1.020

2.5 % 97.5 %

.sig01 0.354414078 0.97273867

.sigma 1.561957769 1.72385373

(Intercept) 378.874079781 879.57020430

pos\_behLy -1.412210310 -0.40545686

pos\_behSq -1.571134511 1.02000810

pos\_behSt 0.120265199 0.80039773

pos\_behQW -0.008858555 0.75117232

pos\_behQS 0.008411612 1.10447747

pos\_behSu -0.343681314 1.78602979

pos\_behVC -0.511258420 0.90982015

amb\_t 0.236193664 0.30404206

sun 0.043217394 0.05464915

date -0.048320812 -0.02007869

hab\_typeBMWD -1.137866094 1.96968339

hab\_typeGA -0.457020156 2.62701562

hab\_typeGL -0.805900891 2.36410931

hab\_typeWD -0.706282939 2.25793155