|  |
| --- |
| **Consensus Changes** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days temp\_scaled speciesAl tissueM tissueS days:temp\_scaled days:speciesAl temp\_scaled:speciesAl days:tissueM days:tissueS temp\_scaled:tissueM temp\_scaled:tissueS speciesAl:tissueM speciesAl:tissueS days:temp\_scaled:speciesAl days:temp\_scaled:tissueM days:temp\_scaled:tissueS days:speciesAl:tissueM days:speciesAl:tissueS temp\_scaled:speciesAl:tissueM temp\_scaled:speciesAl:tissueS days:temp\_scaled:speciesAl:tissueM days:temp\_scaled:speciesAl:tissueS  | 0.578723452 0.012329894 0.171555089 0.022648043 -1.354834297 -1.824338514 -0.004329583 0.006353042 -0.203250850 0.041349226 0.126358113 1.279015327 1.721792910 23.725121125 1.073460235 0.023663924 -0.079661135 -0.119119684 -3.489763122 -0.080256043 -20.316312607 -1.022730734 2.768092592 0.066138955  |  4.065191e-01 3.548928e-02 4.008908e-01 5.702365e-01 8.532960e-01 1.153374e+00 3.428780e-02 5.047674e-02 5.674475e-01 7.131802e-02 8.772691e-02 8.088476e-01 1.168839e+00 1.624360e+03 1.463240e+00 5.008676e-02 6.703374e-02 8.797133e-02 2.320513e+02 1.136338e-01 1.189014e+03 1.892979e+00 1.698590e+02 1.428306e-01  | 0.1545602 0.7282714 0.6686987 0.9683188 0.1123393 0.1137087 0.8995168 0.8998421 0.7202053 0.5620586 0.1497663 0.1138138 0.1407297 0.9883466 0.4631812 0.6365995 0.2346862 0.1757128 0.9880013 0.4800209 0.9863675 0.5890069 0.9869979 0.6433224 |
| **Richness** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) daysspeciesAltissueMtissueStemp\_scaled I(temp\_scaled^2) days:speciesAl days:tissueM days:tissueS speciesAl:tissueM speciesAl:tissueS days:temp\_scaled speciesAl:temp\_scaled tissueM:temp\_scaled tissueS:temp\_scaled days:speciesAl:tissueM days:speciesAl:tissueS days:speciesAl:temp\_scaled days:tissueM:temp\_scaled days:tissueS:temp\_scaled speciesAl:tissueM:temp\_scaled speciesAl:tissueS:temp\_scaled days:speciesAl:tissueM:temp\_scaled days:speciesAl:tissueS:temp\_scaled  | 1.860666131 0.052469453 1.549381629 1.146179676 0.657061889 0.022847945 -0.129288774 -0.136728622 -0.045068049 -0.023969387 -1.505029643 -1.712163158 -0.004739153 -0.412454623 -0.883987706 0.784584041 0.146424910 0.132044772 0.040033584 0.080146392 -0.048680064 1.122027210 0.540739242 -0.118637446 -0.055848692 | 0.19481166 0.01633174 0.25468646 0.23678604 0.30627410 0.20235901 0.02214105 0.02318327 0.02016580 0.02477049 0.31577136 0.44354945 0.01672008 0.26701402 0.24334487 0.35704556 0.02839373 0.03695018 0.02443893 0.02042345 0.02787948 0.33134922 0.63172502 0.02982886 0.04977421 | 1.283231e-211.314801e-03 \*1.175969e-09 \*1.294665e-06 \*3.192572e-02 \*9.101035e-015.241262e-09 \*3.685393e-09 \*2.542557e-02 \*3.332148e-011.877324e-06 \*1.133219e-04 \*7.768390e-011.224206e-012.805211e-04 \*2.798947e-02 \*2.510108e-07 \*3.521208e-04 \*1.013994e-018.700653e-05 \*8.079545e-027.085798e-04 \*3.920130e-016.971093e-05 \*2.618451e-01 |
| **Complexity** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days speciesAl tissueM tissueS temp\_scaled I(temp\_scaled^2) days:speciesAl days:tissueM days:tissueS speciesAl:tissueM speciesAl:tissueS days:temp\_scaled speciesAl:temp\_scaled  |  4.690673e-04 -6.281784e-07 2.191887e-04 4.411965e-05 2.090634e-04 -1.864434e-04 -6.263477e-05 -2.304203e-05 1.928944e-05 7.206515e-066.912594e-05 -1.353393e-04 1.364964e-05 -2.293667e-05 |  1.214735e-04 1.038075e-05 1.346269e-04 1.488400e-04 1.920415e-04 6.993199e-05 2.066458e-05 1.128457e-05 1.258384e-05 1.537006e-05 8.812358e-051.020337e-04 5.668247e-06 3.934041e-05 | 0.0001675456 0.9518275304 0.1056121604 0.7673195556 0.2780718902 0.0085217423 \* 0.0028748115 \* 0.0429247054 \*0.1274274331 0.6398498496 0.43403877050.1867309243 0.0172585072 \* 0.5607540232 |
| **Nucleotide Diversity** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days speciesAl tissueM tissueS temp\_scaled  | 2.329738e-04 2.536778e-06 6.445484e-06 -6.320135e-05 3.008040e-05 2.306161e-05  | 10.0294806 1.3646371 0.5058933 -4.3485380 1.7959713 3.6187487 | 1.328780e-18 1.743198e-01 6.136412e-01 2.455556e-05 \* 7.442204e-02 3.987451e-04 \* |
| **Vector Competence - Midgut** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days speciesAl temp\_scaled I(temp\_scaled^2) days:speciesAl days:temp\_scaled speciesAl:temp\_scaled days:speciesAl:temp\_scaled  | 2.91088067 -0.06711249 -1.13820334 -0.89401048 -0.47533952 0.17446659 0.02278040 1.22825402 -0.17414547 | 0.19890055 0.01607541 0.33311162 0.16891574 0.04919162 0.03379190 0.01386703 0.28631861 0.02842941 | 1.683349e-48 2.981778e-05 \* 6.334256e-04 \* 1.205621e-07 \* 4.329192e-22 \* 2.430607e-07 \* 1.004298e-01 1.788216e-05 \* 9.037688e-10 \* |
| **Vector Competence - Legs** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days speciesAl temp\_scaled I(temp\_scaled^2) days:speciesAl days:temp\_scaled speciesAl:temp\_scaled days:speciesAl:temp\_scaled  | 0.5629868 0.1046814 -3.2553568 1.1515627 -0.6883879 0.2294182 -0.1144518 1.1182104 -0.1122890 | 0.14414909 0.01304336 0.21580105 0.13272669 0.03773217 0.02003445 0.01127245 0.22265844 0.01935628 | 9.399704e-05 1.009916e-15 \* 2.033035e-51 \* 4.092297e-18 \* 2.306725e-74 \* 2.319571e-30 \* 3.205707e-24 \* 5.111258e-07 \* 6.585631e-09 \* |
| **Vector Competence - Saliva** |
| **Coefficient** | **Estimate** | **Std. Error** | **P-Value (\* <0.05)** |
| (Intercept) days speciesAl temp\_scaled I(temp\_scaled^2) days:temp\_scaled speciesAl:temp\_scaled  | -2.6570633 0.1963576 -0.3121241 1.6934573 -0.6190419 -0.1248945 -0.2276101 | 0.20776783 0.01620703 0.09080376 0.29784384 0.04980923 0.02202838 0.10656125 | 1.898208e-37 8.733549e-34 \* 5.874406e-04 \* 1.302611e-08 \* 1.835953e-35 \* 1.430392e-08 \* 3.268306e-02 \* |

**S2 Table. Results from parsimonious generalized linear models.**