Functional traits of trees on and off termite mounds
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## Appendix S4: Extra results

### Table S4A. Proportion of trait variance explained by 10 most important PCA dimensions

<table>
<thead>
<tr>
<th></th>
<th>PC1</th>
<th>PC2</th>
<th>PC3</th>
<th>PC4</th>
<th>PC5</th>
<th>PC6</th>
<th>PC7</th>
<th>PC8</th>
<th>PC9</th>
<th>PC10</th>
</tr>
</thead>
<tbody>
<tr>
<td>standard deviation</td>
<td>2.045</td>
<td>1.764</td>
<td>1.596</td>
<td>1.292</td>
<td>1.225</td>
<td>1.097</td>
<td>1.042</td>
<td>0.971</td>
<td>0.934</td>
<td>0.918</td>
</tr>
<tr>
<td>proportion of variance</td>
<td>0.190</td>
<td>0.141</td>
<td>0.116</td>
<td>0.076</td>
<td>0.068</td>
<td>0.055</td>
<td>0.049</td>
<td>0.043</td>
<td>0.040</td>
<td>0.038</td>
</tr>
<tr>
<td>cumulative proportion</td>
<td>0.190</td>
<td>0.332</td>
<td>0.447</td>
<td>0.523</td>
<td>0.591</td>
<td>0.646</td>
<td>0.695</td>
<td>0.738</td>
<td>0.778</td>
<td>0.816</td>
</tr>
</tbody>
</table>

### Table S4B. Variable loadings (i.e. eigenfactors) of the PCA. Trait variables that had an R² above 0.20 with the given PC are given in bold.

<table>
<thead>
<tr>
<th>Trait</th>
<th>PC1</th>
<th>PC2</th>
<th>PC3</th>
<th>PC4</th>
<th>PC5</th>
<th>PC6</th>
<th>PC7</th>
<th>PC8</th>
<th>PC9</th>
<th>PC10</th>
</tr>
</thead>
<tbody>
<tr>
<td>specific leaf area</td>
<td>-0.359</td>
<td>0.013</td>
<td>-0.121</td>
<td>0.239</td>
<td>0.085</td>
<td>-0.093</td>
<td>0.056</td>
<td>0.069</td>
<td>0.349</td>
<td>-0.039</td>
</tr>
<tr>
<td>individual leaf area</td>
<td>0.066</td>
<td>0.359</td>
<td>-0.221</td>
<td>-0.085</td>
<td>-0.208</td>
<td>-0.215</td>
<td>0.151</td>
<td>0.147</td>
<td>-0.186</td>
<td>0.165</td>
</tr>
<tr>
<td>leaf fractal dimension</td>
<td>-0.113</td>
<td>0.427</td>
<td>0.071</td>
<td>-0.144</td>
<td>-0.105</td>
<td>0.122</td>
<td>-0.210</td>
<td>-0.352</td>
<td>-0.052</td>
<td>-0.074</td>
</tr>
<tr>
<td>spine length</td>
<td>-0.052</td>
<td>-0.218</td>
<td>0.246</td>
<td>-0.164</td>
<td>0.195</td>
<td>-0.276</td>
<td>0.387</td>
<td>0.041</td>
<td>-0.323</td>
<td>-0.096</td>
</tr>
<tr>
<td>spine density</td>
<td>-0.072</td>
<td>0.405</td>
<td>0.231</td>
<td>-0.205</td>
<td>-0.034</td>
<td>-0.119</td>
<td>0.102</td>
<td>0.011</td>
<td>-0.170</td>
<td>-0.143</td>
</tr>
<tr>
<td>branch angle</td>
<td>0.007</td>
<td>-0.087</td>
<td>0.147</td>
<td>0.475</td>
<td>0.095</td>
<td>-0.246</td>
<td>0.315</td>
<td>0.150</td>
<td>-0.234</td>
<td>0.214</td>
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<tr>
<td>trichome density</td>
<td>0.038</td>
<td>-0.081</td>
<td>0.301</td>
<td>0.263</td>
<td>0.290</td>
<td>0.280</td>
<td>0.020</td>
<td>0.232</td>
<td>-0.490</td>
<td>0.306</td>
</tr>
<tr>
<td>wood density</td>
<td>0.050</td>
<td>-0.069</td>
<td>0.221</td>
<td>0.413</td>
<td>0.220</td>
<td>-0.136</td>
<td>-0.206</td>
<td>0.067</td>
<td>0.248</td>
<td>0.579</td>
</tr>
<tr>
<td>polyphenol concentration</td>
<td>0.056</td>
<td>-0.085</td>
<td>0.009</td>
<td>0.101</td>
<td>-0.247</td>
<td>0.615</td>
<td>-0.543</td>
<td>0.083</td>
<td>-0.082</td>
<td>-0.096</td>
</tr>
<tr>
<td>C concentration</td>
<td>0.320</td>
<td>-0.213</td>
<td>-0.241</td>
<td>0.022</td>
<td>0.237</td>
<td>0.101</td>
<td>-0.084</td>
<td>-0.164</td>
<td>0.008</td>
<td>-0.133</td>
</tr>
<tr>
<td>N concentration</td>
<td>-0.320</td>
<td>-0.306</td>
<td>-0.132</td>
<td>-0.019</td>
<td>-0.008</td>
<td>0.079</td>
<td>0.075</td>
<td>0.200</td>
<td>-0.047</td>
<td>-0.146</td>
</tr>
<tr>
<td>P concentration</td>
<td>-0.271</td>
<td>-0.174</td>
<td>-0.265</td>
<td>0.157</td>
<td>-0.083</td>
<td>0.119</td>
<td>-0.072</td>
<td>0.217</td>
<td>-0.087</td>
<td>-0.004</td>
</tr>
<tr>
<td>S concentration</td>
<td>-0.304</td>
<td>0.104</td>
<td>0.226</td>
<td>0.034</td>
<td>-0.266</td>
<td>-0.041</td>
<td>-0.284</td>
<td>0.039</td>
<td>-0.097</td>
<td>-0.110</td>
</tr>
<tr>
<td>K concentration</td>
<td>-0.386</td>
<td>-0.017</td>
<td>-0.162</td>
<td>-0.059</td>
<td>-0.037</td>
<td>-0.045</td>
<td>0.102</td>
<td>0.157</td>
<td>0.250</td>
<td>0.087</td>
</tr>
<tr>
<td>Na concentration</td>
<td>-0.170</td>
<td>0.269</td>
<td>0.018</td>
<td>0.154</td>
<td>0.310</td>
<td>-0.071</td>
<td>-0.198</td>
<td>-0.297</td>
<td>-0.464</td>
<td>0.022</td>
</tr>
<tr>
<td>Ca concentration</td>
<td>-0.205</td>
<td>0.199</td>
<td>0.371</td>
<td>-0.068</td>
<td>-0.059</td>
<td>0.212</td>
<td>0.158</td>
<td>-0.100</td>
<td>-0.019</td>
<td>-0.111</td>
</tr>
<tr>
<td>Mg concentration</td>
<td>-0.090</td>
<td>0.173</td>
<td>0.412</td>
<td>0.067</td>
<td>-0.347</td>
<td>0.231</td>
<td>-0.011</td>
<td>-0.110</td>
<td>-0.039</td>
<td>0.156</td>
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<tr>
<td>Fe concentration</td>
<td>-0.163</td>
<td>0.186</td>
<td>0.055</td>
<td>-0.363</td>
<td>0.302</td>
<td>-0.174</td>
<td>-0.012</td>
<td>0.274</td>
<td>-0.023</td>
<td>0.076</td>
</tr>
<tr>
<td>Mn concentration</td>
<td>0.190</td>
<td>0.221</td>
<td>-0.140</td>
<td>0.292</td>
<td>0.212</td>
<td>-0.147</td>
<td>0.216</td>
<td>-0.095</td>
<td>0.064</td>
<td>0.461</td>
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<tr>
<td>Zn concentration</td>
<td>0.293</td>
<td>0.060</td>
<td>-0.172</td>
<td>-0.282</td>
<td>0.159</td>
<td>-0.187</td>
<td>0.102</td>
<td>-0.239</td>
<td>0.032</td>
<td>0.045</td>
</tr>
<tr>
<td>B concentration</td>
<td>-0.150</td>
<td>0.200</td>
<td>0.002</td>
<td>-0.101</td>
<td>0.409</td>
<td>0.251</td>
<td>-0.308</td>
<td>0.204</td>
<td>-0.181</td>
<td>-0.230</td>
</tr>
<tr>
<td>Cu concentration</td>
<td>-0.262</td>
<td>0.038</td>
<td>0.027</td>
<td>0.238</td>
<td>0.110</td>
<td>-0.127</td>
<td>0.091</td>
<td>-0.572</td>
<td>-0.080</td>
<td>0.288</td>
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</tbody>
</table>
Table S4C. Unweighted trait averages taking all species into account: comparison between control and mound sites. Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Unweighted trait average</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td>V</td>
<td>P</td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>111.9 (3.466)</td>
<td>115.1 (4.217)</td>
<td>79</td>
<td>0.597</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>5.549 (0.722)</td>
<td>6.968 (0.337)</td>
<td>106</td>
<td>0.051</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>4.094 (0.292)</td>
<td>2.925 (0.197)</td>
<td>15</td>
<td>0.004</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.578 (0.068)</td>
<td>0.372 (0.049)</td>
<td>28</td>
<td>0.039</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>10.13 (1.302)</td>
<td>5.026 (0.618)</td>
<td>6</td>
<td>≤ 0.001</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>55.64 (0.617)</td>
<td>55.76 (0.604)</td>
<td>75</td>
<td>0.744</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>10.56 (4.971)</td>
<td>8.054 (2.840)</td>
<td>74</td>
<td>0.782</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.854 (0.014)</td>
<td>0.819 (0.015)</td>
<td>33</td>
<td>0.074</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>27.59 (1.936)</td>
<td>21.376 (1.103)</td>
<td>19</td>
<td>0.009</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>46.74 (0.181)</td>
<td>45.21 (0.489)</td>
<td>25</td>
<td>0.025</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.389 (0.054)</td>
<td>2.250 (0.050)</td>
<td>24</td>
<td>0.021</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>44.19 (1.431)</td>
<td>41.21 (1.221)</td>
<td>26</td>
<td>0.029</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>86.26 (4.011)</td>
<td>90.17 (4.537)</td>
<td>86</td>
<td>0.375</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>369.6 (12.07)</td>
<td>370.4 (10.99)</td>
<td>74</td>
<td>0.782</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>54.17 (7.606)</td>
<td>78.12 (5.893)</td>
<td>112</td>
<td>0.021</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>322.6 (14.26)</td>
<td>347.5 (12.62)</td>
<td>97</td>
<td>0.144</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>174.6 (7.552)</td>
<td>198.1 (6.618)</td>
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<td>0.029</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>2370 (183.0)</td>
<td>2392.8 (134.9)</td>
<td>72</td>
<td>0.860</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>1507 (188.8)</td>
<td>1380 (108.4)</td>
<td>69</td>
<td>0.980</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>306.1 (10.82)</td>
<td>289.4 (11.79)</td>
<td>39</td>
<td>0.144</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2649 (99.52)</td>
<td>3111 (112.8)</td>
<td>124</td>
<td>0.002</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>103.9 (4.336)</td>
<td>101.3 (3.756)</td>
<td>57</td>
<td>0.597</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.341 (0.037)</td>
<td>0.462 (0.032)</td>
<td>94.5</td>
<td>0.053</td>
</tr>
<tr>
<td>Leguminous (no = 0; yes = 1)</td>
<td>0.431 (0.055)</td>
<td>0.215 (0.031)</td>
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<td>0.004</td>
</tr>
<tr>
<td>Poisonous (no = 0; yes = 1)</td>
<td>0.056 (0.019)</td>
<td>0.036 (0.011)</td>
<td>6</td>
<td>0.107</td>
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</tbody>
</table>
Table S4D. Unweighted trait averages taking only legume species into account: comparison between control and mound sites. Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilkinson Test, with $V$ as the test statistic and an associated $P$-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Unweighted trait average</th>
<th>$V$</th>
<th>$P$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td></td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>106.8 (3.684)</td>
<td>118.7 (4.982)</td>
<td>71</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>0.303 (0.188)</td>
<td>0.332 (0.143)</td>
<td>42</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>6.422 (0.276)</td>
<td>5.559 (0.524)</td>
<td>28</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.945 (0.133)</td>
<td>0.790 (0.168)</td>
<td>18</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>17.00 (2.105)</td>
<td>12.37 (1.701)</td>
<td>7</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>57.27 (0.681)</td>
<td>58.70 (1.436)</td>
<td>59</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>2.867 (2.538)</td>
<td>3.385 (3.385)</td>
<td>2</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.898 (0.006)</td>
<td>0.905 (0.007)</td>
<td>63</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>35.46 (2.895)</td>
<td>36.34 (3.932)</td>
<td>50</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>47.76 (0.117)</td>
<td>47.70 (0.105)</td>
<td>48</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.862 (0.055)</td>
<td>2.796 (0.038)</td>
<td>28</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>51.57 (1.334)</td>
<td>49.83 (3.534)</td>
<td>47</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>100.2 (4.064)</td>
<td>103.9 (8.469)</td>
<td>62</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>353.1 (15.326)</td>
<td>318.0 (23.99)</td>
<td>28</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>22.74 (3.092)</td>
<td>28.89 (14.16)</td>
<td>22</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>285.3 (8.831)</td>
<td>267.8 (19.91)</td>
<td>36</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>132.5 (4.424)</td>
<td>132.0 (10.08)</td>
<td>56</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>2856 (379.2)</td>
<td>2433 (219.7)</td>
<td>35</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>696.1 (79.91)</td>
<td>665.3 (99.279)</td>
<td>43</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>351.5 (10.58)</td>
<td>330.2 (25.25)</td>
<td>37</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2519 (107.1)</td>
<td>2838 (364.9)</td>
<td>61</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>117.9 (6.598)</td>
<td>114.3 (8.488)</td>
<td>47</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.099 (0.034)</td>
<td>0.210 (0.074)</td>
<td>35</td>
</tr>
</tbody>
</table>
Table S4E. Unweighted trait averages taking only non-legume species into account: comparison between control and mound sites. Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Unweighted trait average</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td></td>
<td>V</td>
<td>P</td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>112.4 (6.245)</td>
<td>116.6 (4.659)</td>
<td>69</td>
<td>0.980</td>
<td></td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>9.466 (0.820)</td>
<td>9.238 (0.527)</td>
<td>65</td>
<td>0.900</td>
<td></td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>2.251 (0.122)</td>
<td>2.156 (0.081)</td>
<td>48</td>
<td>0.323</td>
<td></td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.329 (0.076)</td>
<td>0.251 (0.049)</td>
<td>56</td>
<td>0.562</td>
<td></td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>5.181 (1.738)</td>
<td>2.026 (0.417)</td>
<td>37</td>
<td>0.117</td>
<td></td>
</tr>
<tr>
<td>branch angle ('')</td>
<td>54.28 (1.172)</td>
<td>55.12 (1.060)</td>
<td>72</td>
<td>0.860</td>
<td></td>
</tr>
<tr>
<td>trichome density (trichomes mm$^2$)</td>
<td>14.71 (6.527)</td>
<td>9.636 (3.305)</td>
<td>68</td>
<td>1.000</td>
<td></td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.831 (0.020)</td>
<td>0.799 (0.018)</td>
<td>44</td>
<td>0.231</td>
<td></td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>21.88 (2.412)</td>
<td>18.32 (1.293)</td>
<td>39</td>
<td>0.144</td>
<td></td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>46.01 (0.273)</td>
<td>45.75 (0.161)</td>
<td>56</td>
<td>0.562</td>
<td></td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.024 (0.080)</td>
<td>2.135 (0.041)</td>
<td>83</td>
<td>0.464</td>
<td></td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>38.40 (2.048)</td>
<td>38.73 (1.253)</td>
<td>62</td>
<td>0.782</td>
<td></td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>78.02 (7.955)</td>
<td>86.94 (5.185)</td>
<td>99</td>
<td>0.117</td>
<td></td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>382.9 (23.88)</td>
<td>384.5 (12.61)</td>
<td>74</td>
<td>0.782</td>
<td></td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>79.04 (13.59)</td>
<td>94.97 (7.598)</td>
<td>94</td>
<td>0.193</td>
<td></td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>360.3 (22.84)</td>
<td>376.1 (16.76)</td>
<td>88</td>
<td>0.323</td>
<td></td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>211.8 (15.59)</td>
<td>217.4 (9.784)</td>
<td>90</td>
<td>0.274</td>
<td></td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>1925 (89.91)</td>
<td>2391 (128.8)</td>
<td>120</td>
<td>0.005</td>
<td></td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>2169 (268.5)</td>
<td>1652 (142.5)</td>
<td>41</td>
<td>0.175</td>
<td></td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>265.5 (13.78)</td>
<td>277.0 (12.74)</td>
<td>81</td>
<td>0.528</td>
<td></td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2746 (156.3)</td>
<td>3238 (109.7)</td>
<td>124</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>90.58 (4.749)</td>
<td>99.66 (3.961)</td>
<td>104</td>
<td>0.065</td>
<td></td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.541 (0.074)</td>
<td>0.554 (0.039)</td>
<td>65.5</td>
<td>0.776</td>
<td></td>
</tr>
</tbody>
</table>
Table S4F. Abundance-weighted trait averages taking all species into account: comparison between control and mound sites. Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Abundance-weighted trait average</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td>V</td>
<td>P</td>
<td></td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>113.4 (5.529)</td>
<td>110.1 (5.757)</td>
<td>72</td>
<td>0.860</td>
<td></td>
</tr>
<tr>
<td>individual leaf area (cm$^3$)</td>
<td>4.696 (0.834)</td>
<td>7.895 (0.604)</td>
<td>116</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>3.979 (0.327)</td>
<td>2.578 (0.154)</td>
<td>11</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.330 (0.092)</td>
<td>0.192 (0.027)</td>
<td>48</td>
<td>0.323</td>
<td></td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>5.530 (1.550)</td>
<td>2.123 (0.360)</td>
<td>20</td>
<td>0.011</td>
<td></td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>58.32 (1.107)</td>
<td>54.28 (1.284)</td>
<td>26</td>
<td>0.029</td>
<td></td>
</tr>
<tr>
<td>trichome density (trichomes mm$^2$)</td>
<td>11.65 (5.856)</td>
<td>8.248 (3.080)</td>
<td>72</td>
<td>0.860</td>
<td></td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.873 (0.010)</td>
<td>0.834 (0.010)</td>
<td>9</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>32.78 (4.537)</td>
<td>26.25 (3.963)</td>
<td>31</td>
<td>0.058</td>
<td></td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>46.80 (0.262)</td>
<td>45.97 (0.207)</td>
<td>27</td>
<td>0.034</td>
<td></td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.447 (0.059)</td>
<td>2.186 (0.067)</td>
<td>15</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>46.84 (1.567)</td>
<td>41.26 (1.618)</td>
<td>12</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>102.5 (5.662)</td>
<td>102.2 (6.347)</td>
<td>61</td>
<td>0.744</td>
<td></td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>355.3 (21.50)</td>
<td>350.5 (14.59)</td>
<td>90</td>
<td>0.274</td>
<td></td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>62.59 (13.19)</td>
<td>83.91 (11.95)</td>
<td>99</td>
<td>0.117</td>
<td></td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>306.4 (15.19)</td>
<td>365.0 (17.99)</td>
<td>136</td>
<td>&lt; 0.001</td>
<td></td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>180.5 (9.862)</td>
<td>215.0 (15.18)</td>
<td>121</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>2509 (140.9)</td>
<td>2295 (124.1)</td>
<td>40</td>
<td>0.159</td>
<td></td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>1413 (278.3)</td>
<td>1443 (86.96)</td>
<td>101</td>
<td>0.093</td>
<td></td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>347.7 (21.01)</td>
<td>288.6 (15.43)</td>
<td>18</td>
<td>0.008</td>
<td></td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2850 (163.1)</td>
<td>3294 (252.7)</td>
<td>103</td>
<td>0.074</td>
<td></td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>114.2 (4.207)</td>
<td>102.1 (4.287)</td>
<td>31</td>
<td>0.058</td>
<td></td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.211 (0.042)</td>
<td>0.527 (0.054)</td>
<td>127</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>Leguminous (no = 0; yes = 1)</td>
<td>0.489 (0.084)</td>
<td>0.137 (0.029)</td>
<td>13</td>
<td>0.003</td>
<td></td>
</tr>
<tr>
<td>Poisonous (no = 0; yes = 1)</td>
<td>0.107 (0.054)</td>
<td>0.132 (0.046)</td>
<td>20</td>
<td>0.834</td>
<td></td>
</tr>
</tbody>
</table>
Table S4G. Abundance-weighted trait averages taking only legume species into account:

comparison between control and mound sites. Standard errors are shown in parentheses.

Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Abundance-weighted trait average</th>
<th>V</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td></td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>107.1 (6.614)</td>
<td>121.3 (4.712)</td>
<td>90</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>0.423 (0.332)</td>
<td>0.310 (0.141)</td>
<td>63</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>6.100 (0.343)</td>
<td>4.963 (0.485)</td>
<td>35</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.653 (0.191)</td>
<td>0.533 (0.174)</td>
<td>37</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>11.50 (3.051)</td>
<td>7.328 (1.597)</td>
<td>32</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>58.87 (1.118)</td>
<td>60.02 (1.443)</td>
<td>87</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>2.854 (2.311)</td>
<td>1.224 (1.224)</td>
<td>0</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.907 (0.009)</td>
<td>0.910 (0.007)</td>
<td>76</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>36.23 (3.851)</td>
<td>33.45 (3.053)</td>
<td>59</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>47.68 (0.133)</td>
<td>47.63 (0.086)</td>
<td>57</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.897 (0.067)</td>
<td>2.820 (0.039)</td>
<td>48</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>54.16 (1.322)</td>
<td>51.38 (3.526)</td>
<td>61</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>114.0 (6.772)</td>
<td>115.3 (8.912)</td>
<td>67</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>351.5 (20.75)</td>
<td>311.9 (22.80)</td>
<td>38</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>16.89 (3.076)</td>
<td>38.46 (25.43)</td>
<td>40</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>279.7 (10.84)</td>
<td>267.8 (19.38)</td>
<td>54</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>141.3 (5.989)</td>
<td>142.7 (10.36)</td>
<td>68</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>3096 (354.0)</td>
<td>2694 (266.2)</td>
<td>41</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>698.7 (75.78)</td>
<td>631.4 (60.69)</td>
<td>50</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>361.9 (12.00)</td>
<td>331.8 (25.00)</td>
<td>39</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2732 (130.6)</td>
<td>3143 (551.9)</td>
<td>65</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>122.8 (6.225)</td>
<td>113.5 (8.614)</td>
<td>42</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.067 (0.045)</td>
<td>0.134 (0.067)</td>
<td>40</td>
</tr>
</tbody>
</table>
Table S4H. Abundance-weighted trait averages taking only non-legume species into account:

comparison between control and mound sites. Standard errors are shown in parentheses.

Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic
and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Abundance-weighted trait average</th>
<th></th>
<th>V</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td></td>
<td></td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>113.3 (6.798)</td>
<td>109.2 (6.672)</td>
<td>63</td>
<td>0.821</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>9.145 (1.021)</td>
<td>9.301 (0.697)</td>
<td>85</td>
<td>0.404</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>2.211 (0.124)</td>
<td>2.145 (0.072)</td>
<td>75</td>
<td>0.744</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.285 (0.093)</td>
<td>0.152 (0.030)</td>
<td>51</td>
<td>0.404</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>4.640 (2.010)</td>
<td>0.991 (0.199)</td>
<td>42</td>
<td>0.193</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>55.53 (1.487)</td>
<td>53.33 (1.534)</td>
<td>44</td>
<td>0.231</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>19.24 (9.871)</td>
<td>9.301 (3.428)</td>
<td>60</td>
<td>0.706</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.843 (0.012)</td>
<td>0.822 (0.011)</td>
<td>23</td>
<td>0.018</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>24.80 (5.810)</td>
<td>25.13 (4.703)</td>
<td>60</td>
<td>0.706</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>46.14 (0.298)</td>
<td>46.01 (0.206)</td>
<td>65</td>
<td>0.900</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.047 (0.101)</td>
<td>2.086 (0.072)</td>
<td>75</td>
<td>0.744</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>39.51 (2.199)</td>
<td>38.81 (1.815)</td>
<td>52</td>
<td>0.433</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>76.44 (8.065)</td>
<td>96.54 (6.892)</td>
<td>110</td>
<td>0.029</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>370.0 (33.09)</td>
<td>353.4 (16.99)</td>
<td>90</td>
<td>0.274</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>86.09 (15.92)</td>
<td>93.23 (12.40)</td>
<td>83</td>
<td>0.464</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>345.8 (21.49)</td>
<td>375.4 (19.57)</td>
<td>105</td>
<td>0.058</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>212.2 (15.09)</td>
<td>218.8 (15.46)</td>
<td>81</td>
<td>0.528</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>1985 (138.6)</td>
<td>2185 (139.0)</td>
<td>98</td>
<td>0.130</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>2399 (421.3)</td>
<td>1586 (103.3)</td>
<td>33</td>
<td>0.073</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>306.4 (31.61)</td>
<td>274.0 (16.43)</td>
<td>49</td>
<td>0.348</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2738 (205.5)</td>
<td>3355 (273.4)</td>
<td>109</td>
<td>0.034</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>94.86 (5.639)</td>
<td>99.42 (4.631)</td>
<td>80</td>
<td>0.562</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.477 (0.093)</td>
<td>0.609 (0.064)</td>
<td>90</td>
<td>0.274</td>
</tr>
</tbody>
</table>
Table S4I. Biomass-weighted trait averages taking all species into account: comparison between control and mound sites. Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilkinson Test, with $V$ as the test statistic and an associated $P$-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Biomass-weighted trait average</th>
<th>$V$</th>
<th>$P$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>control</td>
<td>mound</td>
<td></td>
</tr>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>114.1 (5.066)</td>
<td>109.5 (4.705)</td>
<td>46</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>5.252 (1.261)</td>
<td>8.546 (1.150)</td>
<td>131</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>4.456 (0.461)</td>
<td>2.631 (0.282)</td>
<td>11</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.553 (0.159)</td>
<td>0.342 (0.106)</td>
<td>54</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>9.772 (2.497)</td>
<td>4.186 (1.410)</td>
<td>29</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>57.49 (1.089)</td>
<td>57.67 (1.257)</td>
<td>69</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>16.41 (9.831)</td>
<td>1.485 (0.587)</td>
<td>48</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.878 (0.014)</td>
<td>0.832 (0.024)</td>
<td>36</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>37.05 (6.304)</td>
<td>30.49 (5.517)</td>
<td>45</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>47.03 (0.289)</td>
<td>46.50 (0.275)</td>
<td>41</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.457 (0.075)</td>
<td>2.137 (0.068)</td>
<td>1</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>46.88 (1.492)</td>
<td>40.79 (2.661)</td>
<td>31</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>93.36 (6.513)</td>
<td>93.22 (8.994)</td>
<td>61</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>332.8 (10.54)</td>
<td>303.76 (13.07)</td>
<td>34</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>57.61 (20.69)</td>
<td>86.61 (19.10)</td>
<td>102</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>302.8 (16.30)</td>
<td>351.0 (22.90)</td>
<td>93</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>160.7 (8.534)</td>
<td>199.1 (17.56)</td>
<td>104</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>2484 (312.2)</td>
<td>1966 (100.4)</td>
<td>41</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>1550 (346.0)</td>
<td>1227 (101.5)</td>
<td>65</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>344.4 (26.06)</td>
<td>250.6 (13.26)</td>
<td>9</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2732 (210.2)</td>
<td>2986 (328.9)</td>
<td>76</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>110.1 (7.024)</td>
<td>96.42 (6.237)</td>
<td>33</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.237 (0.058)</td>
<td>0.572 (0.073)</td>
<td>128</td>
</tr>
<tr>
<td>Leguminous (no = 0; yes = 1)</td>
<td>0.551 (0.086)</td>
<td>0.161 (0.063)</td>
<td>8</td>
</tr>
<tr>
<td>Poisonous (no = 0; yes = 1)</td>
<td>0.094 (0.062)</td>
<td>0.099 (0.059)</td>
<td>11</td>
</tr>
</tbody>
</table>
Table S4J. Biomass-weighted trait averages taking only legume species into account:

comparison between control and mound sites. Standard errors are shown in parentheses.

Significance testing was done using a paired Shapiro-Wilkinson Test, with V as the test statistic and an associated P-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Control</th>
<th>Mound</th>
<th>V</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>109.2 (5.028)</td>
<td>118.0 (5.266)</td>
<td>66</td>
<td>0.755</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>0.405 (0.259)</td>
<td>0.351 (0.161)</td>
<td>51</td>
<td>0.629</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>6.568 (0.453)</td>
<td>5.708 (0.603)</td>
<td>46</td>
<td>0.443</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.825 (0.215)</td>
<td>0.870 (0.230)</td>
<td>55</td>
<td>0.900</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>14.64 (3.135)</td>
<td>13.96 (2.706)</td>
<td>50</td>
<td>0.900</td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>58.99 (1.053)</td>
<td>59.03 (1.454)</td>
<td>68</td>
<td>0.670</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>6.546 (6.095)</td>
<td>1.252 (1.252)</td>
<td>0</td>
<td>0.371</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.910 (0.010)</td>
<td>0.907 (0.011)</td>
<td>65</td>
<td>0.900</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>44.41 (6.724)</td>
<td>37.89 (5.946)</td>
<td>61</td>
<td>0.744</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>47.81 (0.133)</td>
<td>47.78 (0.127)</td>
<td>56</td>
<td>0.842</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.804 (0.070)</td>
<td>2.815 (0.054)</td>
<td>67</td>
<td>0.712</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>52.87 (1.425)</td>
<td>50.53 (3.758)</td>
<td>65</td>
<td>0.798</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>105.7 (7.152)</td>
<td>100.5 (9.687)</td>
<td>54</td>
<td>0.755</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>336.1 (16.75)</td>
<td>308.2 (23.37)</td>
<td>52</td>
<td>0.670</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>62.59 (13.19)</td>
<td>83.96 (11.93)</td>
<td>99</td>
<td>0.117</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>275.0 (12.37)</td>
<td>256.6 (20.43)</td>
<td>51</td>
<td>0.629</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>133.4 (8.783)</td>
<td>126.9 (12.02)</td>
<td>49</td>
<td>0.551</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>2508 (140.9)</td>
<td>2301 (123.6)</td>
<td>41</td>
<td>0.175</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>2834 (361.8)</td>
<td>2259 (206.6)</td>
<td>42</td>
<td>0.321</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>355.9 (20.29)</td>
<td>321.2 (23.53)</td>
<td>34</td>
<td>0.148</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2665 (261.2)</td>
<td>2471 (201.5)</td>
<td>51</td>
<td>0.629</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>123.6 (7.359)</td>
<td>116.0 (9.483)</td>
<td>53</td>
<td>0.712</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.204 (0.092)</td>
<td>0.230 (0.090)</td>
<td>33</td>
<td>0.610</td>
</tr>
</tbody>
</table>
Table S4K. Biomass-weighted trait averages taking only non-legume species into account:

comparison between control and mound sites. Standard errors are shown in parentheses.

Significance testing was done using a paired Shapiro-Wilkinson Test, with $V$ as the test statistic and an associated $P$-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>Biomass-weighted trait average</th>
<th>control</th>
<th>mound</th>
<th>$V$</th>
<th>$P$</th>
</tr>
</thead>
<tbody>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>100.2 (13.52)</td>
<td>120.8 (7.097)</td>
<td>95</td>
<td>0.175</td>
<td></td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>7.079 (1.035)</td>
<td>10.69 (0.854)</td>
<td>113</td>
<td>0.018</td>
<td></td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>1.892 (0.190)</td>
<td>1.919 (0.072)</td>
<td>49</td>
<td>0.348</td>
<td></td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.127 (0.084)</td>
<td>0.231 (0.101)</td>
<td>93</td>
<td>0.065</td>
<td></td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>1.231 (0.843)</td>
<td>1.850 (0.906)</td>
<td>93</td>
<td>0.065</td>
<td></td>
</tr>
<tr>
<td>branch angle (°)</td>
<td>45.41 (5.634)</td>
<td>53.92 (1.800)</td>
<td>90</td>
<td>0.274</td>
<td></td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>4.084 (1.916)</td>
<td>6.609 (2.937)</td>
<td>73</td>
<td>0.478</td>
<td></td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.580 (0.073)</td>
<td>0.722 (0.056)</td>
<td>100</td>
<td>0.105</td>
<td></td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>11.94 (1.911)</td>
<td>26.58 (5.766)</td>
<td>107</td>
<td>0.044</td>
<td></td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>40.16 (3.170)</td>
<td>45.47 (0.543)</td>
<td>89</td>
<td>0.298</td>
<td></td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>1.912 (0.203)</td>
<td>2.066 (0.110)</td>
<td>82</td>
<td>0.495</td>
<td></td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>30.91 (5.347)</td>
<td>37.02 (3.585)</td>
<td>88</td>
<td>0.323</td>
<td></td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>70.92 (15.12)</td>
<td>99.40 (16.29)</td>
<td>98</td>
<td>0.130</td>
<td></td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>243.7 (36.76)</td>
<td>291.6 (30.25)</td>
<td>88</td>
<td>0.323</td>
<td></td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>70.23 (26.81)</td>
<td>50.14 (9.824)</td>
<td>73</td>
<td>0.821</td>
<td></td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>293.4 (51.25)</td>
<td>390.8 (44.44)</td>
<td>109</td>
<td>0.034</td>
<td></td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>157.3 (27.07)</td>
<td>205.6 (22.03)</td>
<td>102</td>
<td>0.083</td>
<td></td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>1571 (217.1)</td>
<td>2103 (205.6)</td>
<td>102</td>
<td>0.083</td>
<td></td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>1479 (457.6)</td>
<td>1467 (234.5)</td>
<td>99</td>
<td>0.117</td>
<td></td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>202.4 (40.74)</td>
<td>232.7 (21.29)</td>
<td>87</td>
<td>0.348</td>
<td></td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>2231 (472.9)</td>
<td>2379 (236.3)</td>
<td>82</td>
<td>0.495</td>
<td></td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>65.22 (10.46)</td>
<td>78.26 (6.838)</td>
<td>86</td>
<td>0.375</td>
<td></td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.470 (0.109)</td>
<td>0.529 (0.088)</td>
<td>77</td>
<td>0.669</td>
<td></td>
</tr>
</tbody>
</table>
Table S4L. Trait averages: comparison between unique species of control and mound sites.

Standard errors are shown in parentheses. Significance testing was done using a paired Shapiro-Wilk test, with $V$ as the test statistic and an associated $P$-value.

<table>
<thead>
<tr>
<th>Trait</th>
<th>trait average control</th>
<th>mound</th>
<th>$V$</th>
<th>$P$</th>
</tr>
</thead>
<tbody>
<tr>
<td>specific leaf area (cm$^2$ g$^{-1}$)</td>
<td>123.2 (4.669)</td>
<td>133.5 (1.549)</td>
<td>108</td>
<td>0.362</td>
</tr>
<tr>
<td>individual leaf area (cm$^2$)</td>
<td>7.594 (1.060)</td>
<td>7.595 (0.264)</td>
<td>88.5</td>
<td>0.982</td>
</tr>
<tr>
<td>leaf fractal dimension (cm$^2$ cm$^{-1}$)</td>
<td>3.125 (0.354)</td>
<td>2.824 (0.083)</td>
<td>93</td>
<td>0.820</td>
</tr>
<tr>
<td>spine length (mm)</td>
<td>0.416 (0.098)</td>
<td>0.526 (0.048)</td>
<td>78</td>
<td>0.618</td>
</tr>
<tr>
<td>spine density (no. spines)</td>
<td>7.330 (1.678)</td>
<td>4.135 (0.302)</td>
<td>76</td>
<td>0.542</td>
</tr>
<tr>
<td>branch angle ($^\circ$)</td>
<td>55.77 (0.886)</td>
<td>56.81 (0.519)</td>
<td>85</td>
<td>0.927</td>
</tr>
<tr>
<td>trichome density (trichomes mm$^{-2}$)</td>
<td>45.86 (16.03)</td>
<td>34.91 (3.457)</td>
<td>86</td>
<td>0.960</td>
</tr>
<tr>
<td>wood density (kg L$^{-1}$)</td>
<td>0.894 (0.011)</td>
<td>0.825 (0.004)</td>
<td>46</td>
<td>0.062</td>
</tr>
<tr>
<td>polyphenol concentration (g kg$^{-1}$)</td>
<td>12.16 (1.813)</td>
<td>19.68 (0.875)</td>
<td>116</td>
<td>0.202</td>
</tr>
<tr>
<td>C concentration (% dry weight)</td>
<td>45.98 (0.149)</td>
<td>45.49 (0.096)</td>
<td>84.5</td>
<td>0.909</td>
</tr>
<tr>
<td>N concentration (% dry weight)</td>
<td>2.289 (0.113)</td>
<td>2.481 (0.023)</td>
<td>105.5</td>
<td>0.425</td>
</tr>
<tr>
<td>P concentration (mmol kg$^{-1}$)</td>
<td>42.43 (2.380)</td>
<td>52.00 (0.617)</td>
<td>110</td>
<td>0.316</td>
</tr>
<tr>
<td>S concentration (mmol kg$^{-1}$)</td>
<td>78.25 (2.859)</td>
<td>107.6 (2.301)</td>
<td>122.5</td>
<td>0.116</td>
</tr>
<tr>
<td>K concentration (mmol kg$^{-1}$)</td>
<td>427.7 (19.97)</td>
<td>455.8 (6.804)</td>
<td>97</td>
<td>0.681</td>
</tr>
<tr>
<td>Na concentration (mmol kg$^{-1}$)</td>
<td>47.39 (5.410)</td>
<td>98.61 (5.091)</td>
<td>96.5</td>
<td>0.698</td>
</tr>
<tr>
<td>Ca concentration (mmol kg$^{-1}$)</td>
<td>262.5 (9.514)</td>
<td>373.7 (4.368)</td>
<td>139.5</td>
<td>0.018</td>
</tr>
<tr>
<td>Mg concentration (μmol kg$^{-1}$)</td>
<td>151.9 (3.751)</td>
<td>184.2 (3.472)</td>
<td>102.5</td>
<td>0.508</td>
</tr>
<tr>
<td>Fe concentration (μmol kg$^{-1}$)</td>
<td>3261 (346.3)</td>
<td>3981 (119.9)</td>
<td>99</td>
<td>0.615</td>
</tr>
<tr>
<td>Mn concentration (μmol kg$^{-1}$)</td>
<td>2711 (404.8)</td>
<td>1897 (99.17)</td>
<td>60.5</td>
<td>0.227</td>
</tr>
<tr>
<td>Zn concentration (μmol kg$^{-1}$)</td>
<td>324.4 (12.16)</td>
<td>432.4 (8.531)</td>
<td>107.5</td>
<td>0.374</td>
</tr>
<tr>
<td>B concentration (μmol kg$^{-1}$)</td>
<td>3416 (211.3)</td>
<td>4207 (98.86)</td>
<td>105</td>
<td>0.438</td>
</tr>
<tr>
<td>Cu concentration (μmol kg$^{-1}$)</td>
<td>130.8 (11.28)</td>
<td>129.9 (2.126)</td>
<td>92</td>
<td>0.885</td>
</tr>
<tr>
<td>Evergreen (no = 0; yes = 1)</td>
<td>0.143 (0.054)</td>
<td>0.480 (0.020)</td>
<td>117</td>
<td>0.120</td>
</tr>
<tr>
<td>leguminous</td>
<td>0.286 (0.070)</td>
<td>0.200 (0.016)</td>
<td>80</td>
<td>0.656</td>
</tr>
<tr>
<td>poisonous</td>
<td>0.000 (0.000)</td>
<td>0.080 (0.011)</td>
<td>94.5</td>
<td>0.480</td>
</tr>
</tbody>
</table>