**The Effects of Pavement Types on Soil Bacterial Communities across Different Depths**

Weiwei Yu, Yinhong Hu, Bowen Cui, Yuanyuan Chen and Xiaoke Wang

**Table S1.** The two-way analysis variance of soil physical and chemical properties across land pavement. Data are expressed as mean ± SE, n = 3. SMC: soil moisture content; TC: total carbon; SOC: soil organic carbon; TN: total nitrogen; DOC: dissolved organic carbon; AP: available phosphorus; AK: available potassium. PP: pervious pavement; IPP: impervious pavement; NP: non-pavement.

<table>
<thead>
<tr>
<th>Depth</th>
<th>Pavement</th>
<th>pH</th>
<th>g/kg</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>TC</td>
<td>TN</td>
</tr>
<tr>
<td>0-20</td>
<td>IPP</td>
<td>6.86±0.03</td>
<td>14.95±1.15</td>
<td>0.87±0.06</td>
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<tr>
<td></td>
<td>PP</td>
<td>6.75±0.14</td>
<td>14.26±0.38</td>
<td>0.83±0.06</td>
</tr>
<tr>
<td></td>
<td>NP</td>
<td>7.03±0.05</td>
<td>16.66±0.74</td>
<td>0.99±0.08</td>
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<tr>
<td>20-40</td>
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<td>6.87±0.03</td>
<td>12.39±1.02</td>
<td>0.65±0.12</td>
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<tr>
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<td>PP</td>
<td>6.78±0.08</td>
<td>13.64±1.29</td>
<td>0.6±0.11</td>
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<tr>
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<td>NP</td>
<td>7.00±0.07</td>
<td>13.57±1.31</td>
<td>0.75±0.12</td>
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<tr>
<td>40-60</td>
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<td>6.87±0.06</td>
<td>12.00±1.35</td>
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<td>11.54±1.07</td>
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<td>PP</td>
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<td>12.09±3.15</td>
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<tr>
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<td>NP</td>
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<td>12.58±1.69</td>
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<td>80-100</td>
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<td>PP</td>
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<td>7.14±0.02</td>
<td>12.1±0.49</td>
<td>0.61±0.02</td>
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Table S2. Pearson's correlation between soil characteristics and the relative abundance of abundant phyla.

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<th></th>
<th>Actinobacteria</th>
<th>Chloroflexi</th>
<th>Proteobacteria</th>
<th>Acidobacteria</th>
<th>Nitrospirae</th>
<th>Gemmatimonadetes</th>
<th>GAL15</th>
<th>Firmicutes</th>
<th>Planctomycetes</th>
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<td>pH</td>
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<td>0.371*</td>
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<td>-0.425**</td>
</tr>
<tr>
<td>TC</td>
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<td>-</td>
<td>0.310*</td>
<td>-0.649**</td>
<td>-</td>
<td>-0.595**</td>
<td>0.376*</td>
<td>-0.446**</td>
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<tr>
<td>TN</td>
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<td>-</td>
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<td>-0.540**</td>
<td>-</td>
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<tr>
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<td>-0.313*</td>
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<td>NO₃⁻-N</td>
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<td>-0.370*</td>
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<tr>
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<td>-</td>
<td>0.336*</td>
<td>-0.633**</td>
<td>-</td>
<td>-0.651**</td>
<td>0.298*</td>
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<td>0.307*</td>
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<td>-</td>
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</tbody>
</table>

* P <0.05; ** P <0.01.