**Appendix S6**

Results of general linear models testing the effects of species and their interactions on total bacteria PLFA.

|  |  |
| --- | --- |
|  | Bacteria PLFA (nmole/g) |
|  | 0-5 cm |  5-10 cm |
| Factor\* |  *F* | df |  *P* |  *F* | df |  *P* |
|  | Ah | 13.153 | 1, 57 | ↓**<0.001** | 0.005 | 1, 59 | 0.943 |
|  | Lr | 2.081 | 1, 57 | 0.155 | 1.468 | 1, 59 | 0.231 |
|  | Ol | 0.543 | 1, 57 | 0.464 | 2.418 | 1, 59 | 0.125 |
|  | El | 3.850 | 1, 57 | 0.055 | 0.061 | 1, 59 | 0.806 |
|  | Ah x Lr | 0.009 | 1, 57 | 0.927 | 4.716 | 1, 58 | ↓**0.034** |
|  | Ah x Ol | 0.985 | 1, 56 | 0.325 | 0.080 | 1, 58 | 0.779 |
|  | Ah x El | 0.219 | 1, 56 | 0.642 | 0.441 | 1, 58 | 0.509 |
|  | Lr x Ol | 0.049 | 1, 56 | 0.826 | 1.702 | 1, 58 | 0.197 |
|  | Lr x El | 0.242 | 1, 56 | 0.624 | 3.580 | 1, 58 | 0.063 |
|  | Ol x El | 0.022 | 1, 56 | 0.883 | 0.070 | 1, 58 | 0.793 |

Notes: Significant effects (P<0.05) are given in bold; ↓, significant negative effect.

\* Biomass of *Amynthas hilgendorfi* (Ah), *Lumbricus rubellus* (Lr), *Octolasion lacteum* (Ol), *Eisenoides lonnbergi* (El) and their interactions.