

Supplementary Materials

Table S1. Effects of litter species, tissue and their interaction on the initial litter chemistries tested by two-way ANOVA.

	<i>df</i>	C %	N %	P %	C:N	N:P	Lignin %	Remaining mass %
Species	3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Tissue	1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.048
Species ×Tissue	3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

The numbers in the table represent the *p*-values.

Table S2. Effects of litter species, tissue and their interaction on the bacterial alpha diversity indices tested by two-way ANOVA.

	<i>df.</i>	Observed species	Coverage %	Chao1	Ace	Phylogenetic diversity (PD)	Shannon
Species	3	0.018	0.005	0.057	0.003	<0.001	0.074
Tissue	1	<0.001	<0.001	<0.001	<0.001	<0.001	0.109
Species ×Tissue	3	<0.001	<0.001	<0.001	<0.001	<0.001	0.220

The numbers in the table represent the *p*-values.

Table S3. Effects of litter species, tissue and their interaction on the top ten dominant bacterial phyla tested by two-way ANOVA.

	Species		Tissue		Species ×Tissue	
	<i>F</i> -value	<i>p</i> -value	<i>F</i> -value	<i>p</i> -value	<i>F</i> -value	<i>p</i> -value
<i>Proteobacteria</i>	1.073	0.388	0.860	0.368	0.858	0.483
<i>Actinobacteria</i>	0.553	0.653	0.000	0.997	1.272	0.318
<i>Bacteroidetes</i>	4.074*	0.025	16.407**	0.001	1.059	0.394
<i>Acidobacteria</i>	3.353*	0.045	10.647**	0.005	0.212	0.887
<i>Planctomycetes</i>	1.430	0.271	0.124	0.729	1.506	0.251
<i>Gemmatimonadetes</i>	3.327*	0.046	14.278**	0.002	6.698**	0.004
<i>Cyanobacteria</i>	1.067	0.391	0.107	0.748	0.691	0.571
<i>Verrucomicrobia</i>	0.561	0.649	0.733	0.405	1.032	0.405
<i>Firmicutes</i>	2.980	0.063	16.045**	0.001	2.036	0.149
<i>Chloroflexi</i>	0.501	0.687	4.482*	0.050	2.165	0.132

Table S4. Effects of litter species, tissue and their interaction on the top ten dominant bacterial genera tested by two-way ANOVA.

	Species		Tissue		Species ×Tissue	
	<i>F</i> -value	<i>p</i> -value	<i>F</i> -value	<i>p</i> -value	<i>F</i> -value	<i>p</i> -value
<i>Burkholderia-Paraburkholderia</i>	7.585**	0.002	8.564**	0.010	1.491	0.255
<i>Bradyrhizobium</i>	3.618*	0.036	3.848	0.067	0.891	0.467
<i>Massilia</i>	0.747	0.540	2.687	0.121	0.691	0.571
<i>Sphingomonas</i>	0.681	0.577	9.058**	0.008	1.322	0.302
<i>Caulobacter</i>	1.140	0.363	0.044	0.837	0.695	0.569
<i>Rhizomicrobium</i>	7.034**	0.003	0.246	0.627	1.143	0.362
<i>Rhizobium</i>	1.059	0.394	2.087	0.168	1.020	0.410
<i>Pseudoxanthomonas</i>	0.902	0.462	1.442	0.247	0.829	0.497
<i>Chitinophaga</i>	3.017	0.061	0.063	0.805	1.311	0.305
<i>Mucilaginibacter</i>	3.322*	0.047	13.139**	0.002	0.697	0.567