

Figure S1. Bacterial genus-level cluster 9 of OTU abundance at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Percentage abundance per total OTUs is given at each time point. Cluster centroid was created by the average within the K-means cluster.

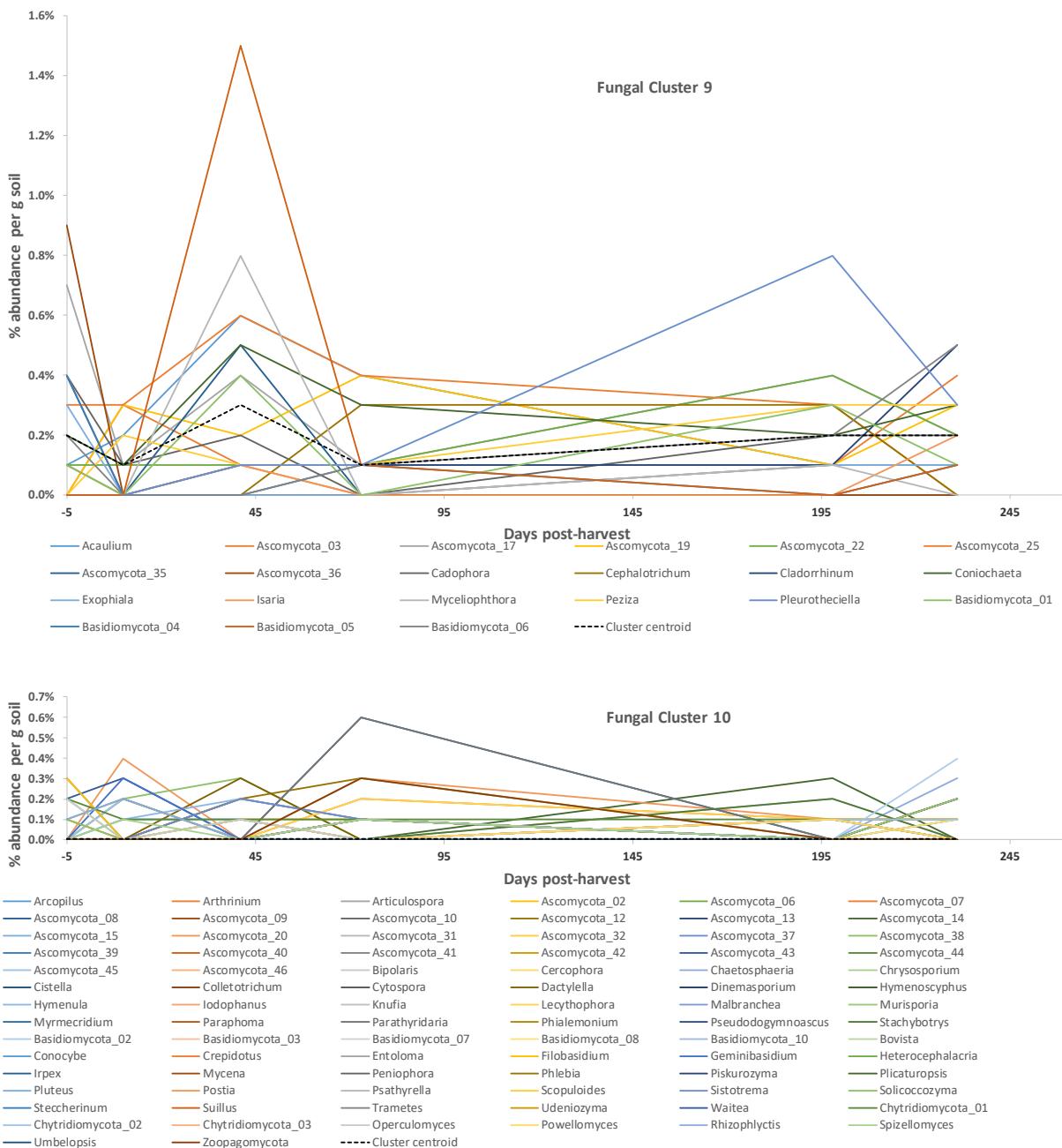


Figure S2. Fungal genus-level clusters 9 and 10 of OTU abundance over time at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Percentage abundance per total OTUs is given at each time point. Cluster centroid was created by the average within the K-means cluster.

Table S1. Comparison of bacterial genus-level cluster 1 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 1 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198dph	231dph
Actinobacteria	<i>Arthrobacter</i>	4.2% A ^b	2.1% B	0.6% C	0% D	0% D	0% D
Actinobacteria	<i>Demequina</i>	6.1% A	1.2% B	0.2% B	0.6% B	1.1% B	0.1% B
Actinobacteria	<i>Pseudoclostridium</i>	6.1% A	0% C	0% C	0.1% C	1.5% B	0% C
Proteobacteria	<i>Rhodoplanes</i>	7.2% A	1.4% CD	3.0% B	1.9% C	0.9% D	4.1% B
Cluster centroid		5.9%A	1.2% B	0.9% B	0.6% B	0.9% B	1.1% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S2. Comparison of bacterial genus-level cluster 2 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 2 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198dph	231 dph
Actinobacteria	<i>Lapillicoccus</i>	0% C ^b	3.7% A	0% C	0% C	0.4% B	0% C
Actinobacteria	<i>Micromonospora</i>	0.5% B	3.2% A	0.3% C	0.2% D	0.5% B	0.2%CD
Actinobacteria	<i>Streptomyces</i>	1.6% A	2.1% A	0.5% C	1.6% B	0.4% D	0.4% D
Firmicutes	<i>Terribacillus</i>	0% B	3.8% A	0% B	0% B	0% B	0% B
Proteobacteria	<i>Bauldia</i>	0.6% C	2.7% A	0% D	1.6% B	0% D	0.7% C
Proteobacteria	<i>Bosea</i>	0.4%BC	4.2% A	0.3% C	0% D	0.7% B	0% D
Proteobacteria	<i>Ensifer</i>	0% C	5.6% A	0% C	0% C	1.1% B	0% C
Proteobacteria	<i>Pseudolabrys</i>	0% C	5.6% A	0% C	2.0% B	0% C	1.5% B
Cluster centroid		0.4% B	3.8% A	0.1% B	0.7% B	0.4% B	0.4% B

^aCluster was created by K-means clustering algorithm in R separating OTs abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S3. Comparison of bacterial genus-level cluster 3 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 3 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Actinobacteria	<i>Aeromicrobium</i>	0.2% B ^b	0% B	4.4% A	0.7% B	0.1% B	0.1% B
Actinobacteria	<i>Blastococcus</i>	0.2% C	0.2% C	6.2% A	1.4% B	0.3% C	0.8% BC
Actinobacteria	<i>Phycicoccus</i>	0% B	0% B	6.2% A	0% B	0% B	0% B
Proteobacteria	<i>Hyphomicrobium</i>	2.4% C	1.7% C	4.4% A	1.2% C	2.9% B	0% D
Proteobacteria	<i>Mesorhizobium</i>	0% C	0% C	4.0% A	2.5% B	2.4% B	0% C
Cluster centroid		0.6% B	0.4% B	5.1% A	1.2% B	1.1% B	0.2% BC

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S4. Comparison of bacterial genus-level cluster 4 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 4 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Actinobacteria	<i>Cellulomonas</i>	0.3% C ^b	0.1% C	0.8% B	0.2% C	1.4% A	0% D
Actinobacteria	<i>Ilumatobacter</i>	0.5% CD	0.6% CD	2.2% A	0.1% D	1.2% B	0.8% BC
Actinobacteria	<i>Nakumurella</i>	0.1% C	0.1% C	1.1% A	0.1% C	0.6% B	0.8% B
Actinobacteria	<i>Rhodococcus</i>	0.7% B	0% C	1.5% A	0.0% C	0% C	1.0% B
Actinobacteria	<i>Streptosporangium</i>	0.3% C	0% D	1.6% A	0% D	0.4% B	0.6% B
Firmicutes	<i>Clostridium</i>	0% B	0% B	0.8% A	0% B	0% B	0% B
Firmicutes	<i>Domibacillus</i>	0% B	0% B	0.7% A	0% B	0% B	0% B
Firmicutes	<i>Paenisporosarcina</i>	0% C	0% B	1.1% A	0.1% B	0% C	0% B
Firmicutes	<i>Viridibacillus</i>	0% B	0% B	0.8% A	0% B	0% B	0% B
Proteobacteria	<i>Amaricoccus</i>	0% B	0% B	2.1% A	0% B	0% B	0% B
Proteobacteria	<i>Phenylobacterium</i>	0.6% C	0% D	3.5% A	1.2% BC	1.3% B	0.8% C
Cluster centroid		0.2% B	0.1% B	1.4% A	0.2% B	0.4% B	0.4% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S5. Comparison of bacterial cluster 5 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 5 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Actinobacteria	<i>Actinomadura</i>	0.3% ^b B	0% C	0% C	1.0%A	0% C	0% C
Actinobacteria	<i>Catellatospora</i>	0% D	0% D	0.9% B	1.6%A	0% D	0.8% C
Actinobacteria	<i>Knoellia</i>	0% B	0% B	0% B	2.4%A	0% B	0% B
Actinobacteria	<i>Lysinimonas</i>	0% D	0.5% B	0% D	1.0%A	0.7% A	0.2% C
Actinobacteria	<i>Nocardioides</i>	0.6% B	0.8% B	1.7% A	2.0%A	1.3% A	1.5% A
Proteobacteria	<i>Altererythrobacter</i>	0% C	0% C	1.6%AB	2.4%A	0.7%BC	0.8%BC
Proteobacteria	<i>Arsenicitalea</i>	0% B	0% B	0% B	1.0%A	0% B	0% B
Proteobacteria	<i>Brevundimonas</i>	0% B	0% B	0.9% A	1.0%A	0% B	0.4% B
Cluster centroid		0.1% C	0.2%C	0.6% B	1.5%A	0.3% B	0.5% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S6. Comparison of bacterial cluster 6 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 6 ^a							
Phylum	Genus	-5 dph	10 dph	41dph	73 dph	198dph	231dph
Acidobacteria	<i>Candidatus Solibacter</i>	0.4% B ^b	0.9% A	0.1%C	0.5% B	0.5% B	0.5% B
Acidobacteria	<i>Stenotrophobacter</i>	0% C	1.4% A	0% D	0.1% C	0.7% B	0.9% B
Actinobacteria	<i>Acrocarpospora</i>	0% B	1.6% A	0% B	0% B	0% B	0% B
Actinobacteria	<i>Iamia</i>	0.4% C	0.6% A	0.6%A	0.4% C	0.4% C	0.6% A
Actinobacteria	<i>Microbispora</i>	0.9% A	0% C	0% C	0.4% B	0.4% B	0.4% B
Firmicutes	<i>Bacillus</i>	1.0% A	1.4% A	0.5% B	0.5% B	1.2% A	1.2% A
Firmicutes	<i>Fictibacillus</i>	0.4% B	0.1% C	0% C	1.0% A	0.8% A	0% C
Proteobacteria	<i>Caulobacter</i>	2.0% A	0% B				
Proteobacteria	<i>Dongia</i>	0.5%AB	0% C	0% C	0% C	0.7% A	0.4% B
Proteobacteria	<i>Labrys</i>	1.1% A	0% C	0% C	0% C	0.7% B	0.9% B
Proteobacteria	<i>Pedomicrobium</i>	0.3%BC	0.9%AB	1.1%A	0.1% C	0.9% A	0% D
Proteobacteria	<i>Sphingobium</i>	0% C	0.7%AB	1.0%A	0.5%AB	0.8% A	0% C
Proteobacteria	<i>Sphingorhabdus</i>	2.2% A	0% B				
Cluster centroid		0.7% A	0.6% A	0.2%B	0.3% B	0.5% A	0.4% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S7. Comparison of bacterial cluster 7 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 7 ^a							
Phylum	Genus	-5 dph	10 dph	41dph	73 dph	198 dph	231 dph
Actinobacteria	<i>Terrabacter</i>	0.5%C ^b	1.1% B	1.2%A	1.3%AB	1.4%A	1.8%A
Proteobacteria	<i>Bradyrhizobium</i>	2.4% A	0% D	0% D	0.2% D	0.7% C	1.9% B
Proteobacteria	<i>Devosia</i>	2.6% B	1.3% C	0.5% C	0% D	0% D	5.3% A
Proteobacteria	<i>Methylorosula</i>	0% C	0% C	0% C	0% C	3.2% A	2.3% B
Proteobacteria	<i>Sphingomonas</i>	4.2% B	1.1% A	0% D	0.6% BC	3.3% C	3.8% C
Cluster centroid		1.9% A	0.7%AB	0.4% B	0.4% B	1.7% A	3.0% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S8. Comparison of bacterial cluster 8 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 8 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231dph
Acidobacteria	<i>Paludibaculum</i>	0%D ^b	0.4%B	0% D	0.6%A	0.1% C	0.8% A
Actinobacteria	<i>Marmoricola</i>	0% D	0.2% C	0.2%C	0.5% B	0.3% C	0.8% A
Actinobacteria	<i>Pseudarthrobacter</i>	0% D	1.7% A	0.2%C	0% D	1.0%AB	1.1% B
Proteobacteria	<i>Allo-Neo-Para-Rhizobium</i>	0% D	0% D	0.3%C	0.1% D	0.6% B	1.9% A
Proteobacteria	<i>Aminobacter</i>	0% B	0% B	0% B	0% B	0% B	1.9% A
Proteobacteria	<i>Microvirga</i>	0% C	0% C	0.3%B	0% C	1.0% A	1.8% A
Proteobacteria	<i>Novosphingobium</i>	0% C	1.1% A	0% C	0% C	0.3% B	0.8% A
Proteobacteria	<i>Rhodopseudomonas</i>	0% B	0% B	0% B	0% B	0% B	0.8% A
Proteobacteria	<i>Sphingoaurantiacus</i>	0% B	0% B	0.8%A	0% B	0% B	1.9% A
Cluster centroid		0% C	0.4% B	0.2%B	0.1% B	0.4% B	1.3% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S9. Comparison of bacterial cluster 9 of OTU abundance for described bacteria at genus level over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Percentage of abundance per OTUs per genera in cluster 9 ^a						
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198dph
Acidobacteria	<i>Bryobacter</i>	0.1%C ^b	0.3%B	0.3%B	0.1%C	0.1%C
Acidobacteria	<i>Candidatus Koribacter</i>	0.04%A	0% A	0% A	0% A	0% A
Acidobacteria	<i>Luteitalea</i>	0.02%A	0% A	0% A	0% A	0% A
Acidobacteria	<i>Vicinamibacter</i>	0% A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Acidothermus</i>	0.03%A	0% B	0.01% B	0% B	0% B
Actinobacteria	<i>Actinoallomurus</i>	0.01%B	0.01%B	0% C	0.02%A	0% C
Actinobacteria	<i>Agromyces</i>	0.01%C	0.03%BC	0.08% A	0.02%C	0.02%C
Actinobacteria	<i>Amycolatopsis</i>	0.04%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Angustibacter</i>	0.48%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Conexibacter</i>	0.03%D	0.1% B	0.03% D	0.06%C	0.11%A
Actinobacteria	<i>Dactylosporangium</i>	0.02%C	0.1% A	0.01% D	0.07%B	0% D
Actinobacteria	<i>Frigoribacterium</i>	0.55%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Gaiella</i>	0.03%D	0.07% B	0.06% C	0.05%C	0.09%A
Actinobacteria	<i>Geodermatophilus</i>	0% B	0% B	0% B	.05% A	0% B
Actinobacteria	<i>Hamadaea</i>	0.02%A	0% A	0% A	.02% A	0% A
Actinobacteria	<i>Leifsonia</i>	0.59%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Leucobacter</i>	0.35%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Luedemannella</i>	0.02%B	0.03% B	0.11% A	0.03%B	0.02%B
Actinobacteria	<i>Mycobacterium</i>	0.06%C	0.17% B	0.17% B	0.24% A	0.08%C
Actinobacteria	<i>Nocardia</i>	0% B	0% B	0% B	0% B	0.12%A
Actinobacteria	<i>Nonomuraea</i>	0% B	0% B	0% B	0% B	0% B
Actinobacteria	<i>Oerskovia</i>	0.09%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Paenarthrobacter</i>	0.75%A	0% A	0% A	0% A	0% A
Actinobacteria	<i>Promicromonospora</i>	0.72%A	0% A	0% A	0% A	0% A

Actinobacteria	<i>Pseudonocardia</i>	0.01%D	0.01% D	0.04% B	0.07% A	0.02%C	0.01% CD
Actinobacteria	<i>Rhizocola</i>	0.02%A	0.01% B	0.02% A	0% B	0% B	0% B
Actinobacteria	<i>Rubrobacter</i>	0.02%A	0.01%A	0.01%AB	0% C	0.01%C	0.01% BC
Actinobacteria	<i>Saccharopolyspora</i>	0.01%A	0% A				
Actinobacteria	<i>Salana</i>	0.16%A	0% A				
Actinobacteria	<i>Sanguibacter</i>	0.04%A	0% A				
Actinobacteria	<i>Solirubrobacter</i>	0.07%D	0.04% E	0.09% C	0.18%A	0.11%B	0.1% BC
Actinobacteria	<i>Sporichthya</i>	0.09%A	0% A				
Actinobacteria	<i>Thermocatellispora</i>	0.26%A	0% A				
Actinobacteria	<i>Williamsia</i>	0.01%B	0% B	0.05% A	0% B	0% B	0% B
Bacteroidetes	<i>Adhaeribacter</i>	0.01%C	0.01% B	0.03% A	0.01%B	0.01% B	0% C
Bacteroidetes	<i>Chryseobacterium</i>	0% B	0% B	0.01% A	0% B	0% B	0% B
Bacteroidetes	<i>Chryseolinea</i>	0.02%A	0% A				
Bacteroidetes	<i>Cytophaga</i>	0.02%A	0% A				
Bacteroidetes	<i>Dyadobacter</i>	0% A	0% A	0% A	0% A	0% A	0% A
Bacteroidetes	<i>Ferruginibacter</i>	0% C	0% C	0.01% C	0.02%B	0.03%A	0.01% C
Bacteroidetes	<i>Flavihumibacter</i>	0% C	0% C	0.02% B	0.03%A	0% C	0.02% B
Bacteroidetes	<i>Flavisolibacter</i>	0% C	0.02% A	0% C	0% C	0.01%B	0.01% B
Bacteroidetes	<i>Flavitalea</i>	0.02%B	0.03% A	0.01% D	0.01%C	0% D	0% D
Bacteroidetes	<i>Flavobacterium</i>	0% D	0.02% C	0.03%BC	0.03%C	0.05%B	0.09% A
Bacteroidetes	<i>Hymenobacter</i>	0% B	0% B	0.01% A	0.01% A	0% B	0% B
Bacteroidetes	<i>Ohtaekwangia</i>	0.11%A	0% A				
Bacteroidetes	<i>Parafilimonas</i>	0% A	0% A	0% A	0% A	0% A	0% A
Bacteroidetes	<i>Parasegetibacter</i>	0% B	0% B	0.01% B	0% B	0.03%A	0% B
Bacteroidetes	<i>Pedobacter</i>	0% C	0% C	0.03% A	0.02%B	0.03%A	0.01% C
Bacteroidetes	<i>Pontibacter</i>	0% A	0.01% A	0% A	0% A	0% A	0.01% A
Bacteroidetes	<i>Sphingobacterium</i>	0.03%A	0% A				
Bacteroidetes	<i>Terrimonas</i>	0.01%C	0.02% A	0% C	0% C	0.01% C	0.02% B
Chlamydiae	<i>Candidatus Protochlamydia</i>	0% B	0.01% A	0% B	0% B	0% B	0.01% B
Chloroflexi	<i>Nitrolancea</i>	0.02%A	0% B	0.03% A	0% B	0.02%A	0.02% AB
Firmicutes	<i>Ammoniphilus</i>	0% C	0.01% B	0.02%AB	0% C	0.02%A	0% C
Firmicutes	<i>Brevibacillus</i>	0.02%C	0.02% B	0.03% A	0.02%C	0.01%C	0.01% D

Firmicutes	<i>Cohnella</i>	0.01% B	0% C	0% C	0.02% A	0% C	0.01% AB
Firmicutes	<i>Desulfosporosinus</i>	0% B	0% B	0% AB	0% A	0% B	0% B
Firmicutes	<i>Effusibacillus</i>	0% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Lysinibacillus</i>	0% C	0.16% A	0.02% C	0% C	0.1% B	0% C
Firmicutes	<i>Oceanobacillus</i>	0.08% A	0% B	0% B	0.01% B	0% B	0% B
Firmicutes	<i>Oxalophagus</i>	0% A	0.01% A	0% A	0% A	0% A	0.01% A
Firmicutes	<i>Paenibacillus</i>	0.11% B	0.12% A	0.12% A	0.1% B	0.09% B	0.06% C
Firmicutes	<i>Pseudogracilibacillus</i>	0.38% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Psychrobacillus</i>	0.13% A	0% B	0% B	0% B	0.02% B	0% B
Firmicutes	<i>Romboutsia</i>	0.03% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Rummeliibacillus</i>	0.19% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Shimazuella</i>	0.14% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Sporosarcina</i>	0.06% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	<i>Thermoactinomyces</i>	0% B	0% B	0% B	0% A	0% B	0% B
Firmicutes	<i>Tumebacillus</i>	0.01% D	0.03% A	0.01% C	0.01% C	0.01% C	0.01% CD
Gemmatimonadetes	<i>Gemmatimonas</i>	0.16% C	0.32% A	0% E	0.07% D	0.11% D	0.25% B
Gemmatimonadetes	<i>Gemmatirosa</i>	0.02% A	0% A	0% A	0% A	0% A	0% A
Nitrospirae	<i>Nitrospira</i>	0.04% B	0.04% B	0.01% D	0.02% C	0.03% B	0.06% A
Planctomycetes	<i>Aquisphaera</i>	0.03% A	0% A	0% A	0% A	0% A	0% A
Planctomycetes	<i>Blastopirellula</i>	0.04% A	0% A	0% A	0% A	0% A	0% A
Planctomycetes	<i>Candidatus Nostocoidea</i>	0.01% A	0% A	0% A	0% A	0% A	0% A
Planctomycetes	<i>Fimbriiglobus</i>	0% B	0.01% B	0.02% A	0.01% B	0% B	0% B
Planctomycetes	<i>Gemmata</i>	0.02% C	0.05% A	0.01% C	0% C	0.03% B	0.06% A
Planctomycetes	<i>Pirellula</i>	0.03% A	0.02% B	0.02% B	.01% C	0.03% A	0.03% A
Planctomycetes	<i>Planctomicromium</i>	0% B	0% B	0% B	0% B	0.02% A	0% B
Planctomycetes	<i>Planctopirus</i>	0% A	0% A	0% A	0% A	0.02% A	0% A
Planctomycetes	<i>Singulisphaera</i>	0.02% A	0% C	0.02% A	0.02% A	0.01% C	0.01% C
Proteobacteria	<i>Acidibacter</i>	0.03% B	0.05% A	0.02% BC	0.01% E	0.02% D	0.01% DE
Proteobacteria	<i>Acinetobacter</i>	0.01% A	0% A	0% A	0% A	0% A	0% A
Proteobacteria	<i>Aetherobacter</i>	0.01% A	0% A	0% A	0% A	0% A	0% A
Proteobacteria	<i>Aquabacterium</i>	0.04% A	0% A	0% A	0% A	0% A	0% A
Proteobacteria	<i>Aquicella</i>	0.01% A	0% A	0% A	0% A	0% A	0% A

Proteobacteria	<i>Arenimonas</i>	0.01%C	0.03% B	0.04% B	0.03% B	0.05%A	0.01% C
Proteobacteria	<i>Bacteriovorax</i>	0% B	0% B	0% B	0% B	0% B	0% A
Proteobacteria	<i>Bdellovibrio</i>	0.05%A	0% A				
Proteobacteria	<i>Caenimonas</i>	0% B	0% B	0.2% B	0% B	0% B	0.04% A
Proteobacteria	<i>Candidatus Alysiospaera</i>	0.03%B	0% C	0% C	0% C	0.8% A	0% C
Proteobacteria	<i>Cellvibrio</i>	0.05%A	0% A				
Proteobacteria	<i>Coxiella</i>	0% A	0% A	0% A	0% A	0% A	0% A
Proteobacteria	<i>Cupriavidus</i>	0% B	0% B	0% B	0.01% A	0.01% A	0% B
Proteobacteria	<i>Dokdonella</i>	0.01%A	0% A				
Proteobacteria	<i>Geminicoccus</i>	0% B	0% B	0% B	0.02%	0% B	0% B
Proteobacteria	<i>Haliangium</i>	0.02%A	0.01% C	0% D	0.01% D	0% D	0.01% B
Proteobacteria	<i>Herbaspirillum</i>	0.04%A	0% A				
Proteobacteria	<i>Hirschia</i>	0% A	0% A	0.02% A	0% A	0% A	0% A
Proteobacteria	<i>Legionella</i>	0.05%A	0% A				
Proteobacteria	<i>Luteimonas</i>	0.03%A	0% A				
Proteobacteria	<i>Lysobacter</i>	0.15%A	0% A				
Proteobacteria	<i>Massilia</i>	0% B	0.01%B	0.03%A	0.03% A	0.03% A	0.02% A
Proteobacteria	<i>Methylibium</i>	0.05%A	0% A				
Proteobacteria	<i>Methylobacterium</i>	0% A	0% A	0.08% A	0% A	0% A	0% A
Proteobacteria	<i>Methylotenera</i>	0.05%A	0% A				
Proteobacteria	<i>Minicystis</i>	0.05%A	0% A				
Proteobacteria	<i>Nannocystis</i>	0% C	0% B	0% C	.01% A	0% C	0% C
Proteobacteria	<i>Nitrobacter</i>	0% A	0% A	0% A	.02% A	0% A	0% A
Proteobacteria	<i>Nitrosospira</i>	0% B	0% B	0.01% B	0.12%	0% B	0.01% B
Proteobacteria	<i>Nordella</i>	0.19%B	0.48%A	0% D	0% D	0.03%D	0.17% BC
Proteobacteria	<i>Noviherbaspirillum</i>	0.03%B	0.04% A	0% C	0% C	0% C	0.04% A
Proteobacteria	<i>Pajaroellobacter</i>	0.01%C	0% C	0.02% A	0.02%B	0.02%B	0.02% B
Proteobacteria	<i>Peredibacter</i>	0% B	0% B	0.01% A	0% B	0% B	0% B
Proteobacteria	<i>Phaselicystis</i>	0.07%A	0% A				
Proteobacteria	<i>Polycyclovorans</i>	0.01%A	0% A				
Proteobacteria	<i>Porphyrobacter</i>	0.12%A	0% A				
Proteobacteria	<i>Pseudenhygromyxa</i>	0.01%A	0% A				

Proteobacteria	<i>Pseudomonas</i>	0% C	0.02% B	0.02% B	0.01%C	0.04%A	0.03% B
Proteobacteria	<i>Pseudoxanthomonas</i>	0% B	0% B	0.01% A	0% B	0% B	0% B
Proteobacteria	<i>Rahnella</i>	0.01%A	0% A				
Proteobacteria	<i>Ramlibacter</i>	0.03%C	0.09% A	0.04% B	0.04%B	0.02%D	0.02% CD
Proteobacteria	<i>Reyranella</i>	0.1%A	0% D	0% D	0.06%C	0.12%A	0.07% BC
Proteobacteria	<i>Roseomonas</i>	0% B	0.09% A	0% B	0% B	0% B	0% B
Proteobacteria	<i>Skermanella</i>	0% B	0% B	0% B	0% B	0.02%B	0.21% A
Proteobacteria	<i>Sorangium</i>	0.07%A	0% A				
Proteobacteria	<i>Stenotrophomonas</i>	0.04%A	0% A				
Proteobacteria	<i>Steroidobacter</i>	0.03%A	0.02% B	0.01% D	0.01%	0.01%C	0.01%CD
Proteobacteria	<i>Tabrizicola</i>	0.24%A	0% A				
Proteobacteria	<i>Thermomonas</i>	0% C	0% C	0% C	0.01%B	0.02%A	0.01% AB
Proteobacteria	<i>Variovorax</i>	0% C	0.01% B	0.01% C	0.01%C	0.04%A	0.01% C
Proteobacteria	<i>Vulgatibacter</i>	0% A	0% A	0% A	0% A	0% A	0% A
Verrucomicrobia	<i>Candidatus Udaeobacter</i>	0.02%B	0.02% B	0.01% C	0.05A	0.03%B	0.02% BC
Verrucomicrobia	<i>Chthoniobacter</i>	0.02%A	0.01% C	0.01% B	0.01%C	0.01%D	0.01% BC
Verrucomicrobia	<i>Luteolibacter</i>	0% B	0.01% B	0.03% A	0.01%B	0.02%A	0.02% A
Verrucomicrobia	<i>Opitutus</i>	0% A	0% A	0% A	0% A	0.07%A	0.01% A
Verrucomicrobia	<i>Pedosphaera</i>	0.02%A	0% B				
Verrucomicrobia	<i>Prosthecobacter</i>	0.02%A	0% A				
Verrucomicrobia	<i>Roseimicrobium</i>	0% C	0% C	0% C	0% C	0.01%B	0.01% A
Verrucomicrobia	<i>Verrucomicrobium</i>	0.01%A	0% A				
Cluster centroid		0.06%A	0.02% B	0.01% B	0.01% B	0.01% B	0.02% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S10. Comparison of bacterial cluster 9 of OTU abundance for unidentified bacteria at genus level over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 440 - 476 bp V3-V4 region of the 16S rRNA using USEARCH with the SILVA 132 SSU NR99 database (<https://www.arb-silva.de/>).

Phylum	Genus	Percentage of abundance per OTUs per undescribed genera in cluster 9-1 ^a					
		-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Abditibacteriota	1	0.08% A ^b	0% A	0% A	0% A	0% A	0% A
Acidobacteria	1	0.1% AB	0.05% BC	0% C	0.01% C	0.01% C	0.14% A
Acidobacteria	2	0.01% A	0.01% A	0.01% B	0% C	0.01% A	0.01% A
Acidobacteria	3	0% B	0.02% A	0% C	0% BC	0.01% A	0% BC
Acidobacteria	4	0.01% C	0.08% B	0% C	0.29% A	0.09% B	0% C
Acidobacteria	5	0.02% C	0.01% C	0.01% C	0% D	0.03% A	0.02% B
Acidobacteria	6	0% D	0.01% B	0% C	0.01% A	0% CD	0% C
Acidobacteria	7	0.01% A	0% D	0% C	0% C	0.01% B	0% C
Acidobacteria	8	0% B	0.02% B	0.01% B	0% B	0.2% A	0.01% B
Acidobacteria	9	0.07% A	0.01% D	0.01% D	0.06% B	0.06% B	0.02% C
Acidobacteria	10	0.04% B	0% C	0.05% A	0% C	0.01% C	0% C
Acidobacteria	11	0.01% B	0% B	0% B	0% B	0.02% B	0.05% A
Acidobacteria	12	0% C	0.02% B	0% C	0.03% A	0.01% C	0.01% C
Acidobacteria	13	0% C	0% B	0.01% A	0% C	0% B	0% B
Acidobacteria	14	0% CD	0.02% A	0.01% B	0% C	0% DE	0% E
Acidobacteria	15	0.02% A	0.01% BC	0.01% B	0.01% B	0.01% C	0% D
Acidobacteria	16	0.02% B	0% D	0% D	0.01% C	0% D	0.03% A
Acidobacteria	17	0.05% B	0.01% C	0% C	0.01% C	0.04% B	0.1% A
Acidobacteria	18	0.02% A	0.01% A	0% C	0.02% A	0.01% B	0% BC
Acidobacteria	19	0.01% B	0.03% A	0.01% B	0.01% B	0.03% A	0.01% B
Acidobacteria	20	0.01% D	0.03% A	0.01% CD	0.01% C	0.02% B	0.03% AB
Actinobacteria	1	0.02% AB	0.04% A	0.01% B	0.01% B	0.03% AB	0.01% B
Actinobacteria	2	0.02% B	0.01% BC	0.01% BC	0.02% BC	0% C	0.29% A
Actinobacteria	3	0.32% A	0.07% C	0.09% C	0.01% D	0.02% D	0.17% B
Actinobacteria	4	0.06% B	0.25% A	0.01% C	0.01% C	0% C	0.01% C
Actinobacteria	5	0.01% D	0.03% D	0.3% A	0.06% CD	0.16% B	0.13% BC
Actinobacteria	6	0.03% BC	0% C	0% C	0.01% C	0.07% B	0.4% A
Actinobacteria	7	0.05% B	0.07% A	0.04% B	0% C	0.08% A	0.08% A
Actinobacteria	8	0% C	0.01% BC	0% C	0.02% BC	0.02% B	0.21% A
Actinobacteria	9	0% D	0.02% BC	0% D	0.12% A	0.03% B	0.01% CD
Actinobacteria	10	0% D	0.16% C	0% D	0.26% AB	0.21% BC	0.28% A
Actinobacteria	11	0.1% B	0.01% C	0% C	0.03% C	0.16% A	0% C

Actinobacteria	12	0% C	0% C	0% C	0.08% A	0.01% C	0.06% B
Armatimonadetes	1	0% B	0% B	0% B	0.01% B	0.03% A	0% B
Bacterial rice cluster	1	0% B	0% B	0% B	0% A	0% B	0% A
Bacteroidetes	1	0.04% A	0.01% C	0% D	0.01% CD	0.02% B	0% CD
Bacteroidetes	2	0.01% B	0.02% A	0% C	0% C	0% C	0% C
Bacteroidetes	3	0% B	0.01% A	0% B	0.01% A	0% B	0% B
Bacteroidetes	4	0% C	0% C	0.01% B	0% C	0.01% A	0% C
Bacteroidetes	5	0% BC	0% C	0% B	0% BC	0% B	0.01% A
Bacteroidetes	6	0% B	0% B	0% B	0% B	0% B	0% A
Bacteroidetes	7	0% B	0% B	0.02% A	0% B	0.02% A	0% B
Bacteroidetes	8	0% B	0% B	0% B	0% B	0% A	0% B
Bacteroidetes	9	0% C	0% C	0% C	0.03% B	0.08% A	0.01% C
Bacteroidetes	10	0% B	0% B	0% B	0.01% B	0% B	0.05% A
Bacteroidetes	11	0% B	0% B	0% B	0% B	0.01% B	0.02% A
Bacteroidetes	12	0% B	0% B	0% B	0% B	0% B	0.01% A
Bacteroidetes	13	0% B	0% B	0% B	0% B	0.01% A	0% B
Bacteroidetes	14	0% B	0% B	0% B	0% B	0% B	0.02% A
Bacteroidetes	15	0% B	0% B	0% B	0% B	0% B	0.01% A
Chlamydiae	1	0% B	0% B	0% B	0% A	0% B	0% B
Chloroflexi	1	0% B	0.18% AB	0.65% A	0.55% A	0.14% AB	0% B
Chloroflexi	2	0% B	0.74% A	0% B	0% B	0.21% B	0% B
Chloroflexi	3	0.11% B	0% C	0.01% C	0.01% C	1.52% A	0% C
Chloroflexi	4	0.87% A	0% C	0.15% B	0.07% BC	0.01% C	0.07% BC
Chloroflexi	5	0% C	0.27% A	0% C	0.01% C	0.05% B	0% C
Chloroflexi	6	0% C	0.01% C	0.27% A	0.1% B	0.04% BC	0% C
Chloroflexi	7	0% C	0.03% BC	0% C	0% BC	0.03% B	0.11% A
Chloroflexi	8	0% E	0.86% A	0.31% B	0.14% D	0.02% E	0.22% C
Chloroflexi	9	0% D	0.15% C	0.2% C	0.85% A	0% D	0.65% B
Chloroflexi	10	0% C	0.03% BC	0% C	0.08% A	0.04% B	0% C
Chloroflexi	11	0% C	0.09% C	0.45% B	1.29% A	0% C	0% C
Chloroflexi	12	0.04% A	0% B	0% B	0.05% A	0.01% B	0% B
Chloroflexi	13	0% C	0% C	0.21% B	0.01% C	0.72% A	0% C
Chloroflexi	14	0.03% B	0.01% B	0% B	0% B	0.09% A	0.11% A
Chloroflexi	15	0% D	0% D	0% D	0.12% C	0.25% A	0.19% B
Chloroflexi	16	0.03% B	0.05% A	0.01% CD	0.04% AB	0.02% C	0% D
Chloroflexi	17	0.02% C	0.06% B	0% C	0% C	0.11% A	0% C
Chloroflexi	18	0.15% A	0% B				
Chloroflexi	19	0% B	0.15% A	0% B	0% B	0% B	0% B
Chloroflexi	20	0% B	0% B	0.22% A	0% B	0% B	0% B

Chloroflexi	21	0% B	0.04% A	0% B	0% B	0% B	0% B
Chloroflexi	22	0.04% A	0.04% A	0% A	0% A	0% A	0% A
Chloroflexi	23	0% A	0% A	0% A	0% A	0% A	0% A
Chloroflexi	24	0% B	0.06% A	0% B	0% B	0% B	0% B
Chloroflexi	25	0% A	0.01% A	0% A	0% A	0% A	0% A
Chloroflexi	26	1.56% A	0% A	0% A	0% A	0% A	0% A
Cyanobacteria	1	0% B	0% B	0.1% A	0% B	0% B	0% B
Cyanobacteria	2	0% B	0.07% A	0% B	0% B	0.02% B	0.05% AB
Cyanobacteria	3	0.11% A	0% A	0% A	0% A	0% A	0% A
Dependentiae	1	0.03% A	0% A	0% A	0% A	0% A	0% A
Firmicutes	1	0.01% C	0.01% A	0% C	0% C	0.01% B	0% C
Firmicutes	2	0.02% A	0.02% A	0% B	0% B	0% B	0% B
Firmicutes	3	0.02% A	0% A	0% A	0% A	0% A	0% A
Gemmatimonadetes	1	0.12% B	0.03% C	0.24% A	0.03% C	0.02% C	0% C
Gemmatimonadetes	2	0.22% A	0.01% B	0.03% B	0.19% A	0.05% B	0.04% B
Gemmatimonadetes	3	0.03% B	0.07% A	0% C	0.02% BC	0.03% B	0.06% A
Gemmatimonadetes	4	0% D	0% D	0% D	0.09% A	0.02% C	0.06% B
Gemmatimonadetes	5	0% C	0% C	0.02% BC	0% BC	0.11% A	0.03% B
Gemmatimonadetes	6	0% B	0% B	0% B	0.09% A	0% B	0% B
Gemmatimonadetes	7	0.04% B	0.04% B	0.02% C	0.15% A	0% CD	0% D
Gemmatimonadetes	8	0.01% B	0% CD	0% D	0.02% A	0% C	0% C
Gemmatimonadetes	9	0% A	0% B	0% B	0% B	0% A	0% B
Gemmatimonadetes	10	0% AB	0% B	0% A	0% A	0% AB	0% B
Gemmatimonadetes	11	0% A	0% B	0% A	0% B	0% AB	0% B
Gemmatimonadetes	12	0% A	0% B	0% B	0% B	0% B	0% B
Gemmatimonadetes	13	0.01% A	0% A	0% A	0% A	0.01% A	0% A
Gemmatimonadetes	14	0% A	0% A	0% A	0% A	0% A	0% A
Gemmatimonadetes	15	0.01% A	0% A	0% A	0% A	0% A	0% A
Gemmatimonadetes	16	0% A	0% A	0% A	0% A	0% A	0% A
Hydrogenedentes	1	0% A	0% A	0% A	0% A	0% A	0% A
Latescibacteria	1	0% B	0% B	0% B	0% B	0% A	0% B
Latescibacteria	2	0.01% A	0% A	0% A	0% A	0% A	0% A
Patescibacteria	1	0.12% A	0.02% B	0% B	0.02% B	0.03% B	0.01% B
Patescibacteria	2	0% C	0% C	0% C	0.03% A	0.01% B	0.03% A
Patescibacteria	3	0.01% A	0% A	0% A	0% A	0% A	0% A
Planctomycetes	1	0.28% A	0.04% B	0.01% B	0.03% B	0% B	0.28% A
Planctomycetes	2	0% C	0.02% B	0.01% BC	0% C	0.05% A	0% C
Planctomycetes	3	0.01% BC	0.01% B	0.02% A	0% D	0.01% C	0% D
Planctomycetes	4	0.02% B	0% D	0% D	0.03% A	0.01% C	0.01% C

Planctomycetes	5	0.02% B	0.01% B	0.18% A	0% B	0% B	0% B
Planctomycetes	6	0.01% B	0% E	0% C	0% D	0.02% A	0% D
Planctomycetes	7	0% C	0.01% A	0% BC	0.01% A	0% B	0% BC
Planctomycetes	8	0% C	0.01% A	0.01% B	0% C	0% C	0% C
Planctomycetes	9	0.02% B	0.02% B	0% C	0.01% B	0% C	0.27% A
Planctomycetes	10	0.01% B	0.01% B	0% C	0% C	0% BC	0.04% A
Planctomycetes	11	0.01% B	0.01% B	0.04% B	0.01% B	0.1% A	0.01% B
Planctomycetes	12	0% D	0% D	0% CD	0.01% A	0% C	0.01% B
Planctomycetes	13	0% B	0% C	0% BC	0% BC	0% C	0.01% A
Planctomycetes	14	0.01% C	0.02% A	0% D	0% D	0.01% B	0.02% A
Planctomycetes	15	0.01% C	0% D	0.02% B	0% D	0.03% A	0.02% BC
Proteobacteria	1	0% B	0% B	0.02% B	0.01% B	1.64% A	0.01% B
Proteobacteria	2	0.19% B	0% C	0% C	0% C	0.43% A	0% C
Proteobacteria	3	0.01% C	0% C	0.03% C	0.22% B	0.01% C	1.01% A
Proteobacteria	4	0% C	0.01% C	0.01% C	0.45% A	0.36% B	0.01% C
Proteobacteria	5	0% BC	0% C	0% BC	0% C	0.05% B	0.56% A
Proteobacteria	6	0.36% A	0.01% B	0.01% B	0.02% B	0.01% B	0.06% B
Proteobacteria	7	0.01% B	0.02% B	0.07% B	0% B	0.66% A	0.04% B
Proteobacteria	8	0.02% CD	0.09% B	0% D	0% D	0.04% C	0.29% A
Proteobacteria	9	0% B	0.8% A	0% B	0.01% B	0% B	0% B
Proteobacteria	10	0% B	0.02% B	0% B	0% B	0.43% A	0% B
Proteobacteria	11	0% C	0% C	0.79% A	0% C	0.02% C	0.08% B
Proteobacteria	12	0% B	0% B	0% C	0% A	0% B	0% C
Proteobacteria	13	0.03% BC	0.05% B	0.01% C	0.05% B	0.01% C	0.11% A
Proteobacteria	14	0% C	0% C	0.11% A	0% C	0.04% B	0.01% C
Proteobacteria	15	0.02% B	0% B	0% B	0% B	0.68% A	0% B
Proteobacteria	16	0% B	0.62% A	0.09% B	0% B	0.03% B	0% B
Proteobacteria	17	2.3% A	0% B	0.01% B	0% B	0% B	0.02% B
Proteobacteria	18	0% B	0.04% B	0.16% A	0.01% B	0% B	0% B
Proteobacteria	19	0% B	0.03% A	0% B	0% B	0.02% A	0% B
Proteobacteria	20	0% C	0.09% A	0.01% B	0% C	0% C	0% C
Proteobacteria	21	0.01% C	0% C	0.18% A	0.01% C	0.13% B	0% C
Proteobacteria	22	0% C	0.01% B	0.15% A	0% BC	0% BC	0.01% BC
Proteobacteria	23	0.05% B	0% D	0.01% CD	0.03% BC	0.18% A	0% D
Proteobacteria	24	0% C	0% C	1.09% A	0.23% B	0.01% C	0% C
Proteobacteria	25	0% B	0% B	0.8% A	0.02% B	0% B	0.01% B
Proteobacteria	26	0% DE	0% C	0% E	0% CD	0.01% B	0.01% A
Proteobacteria	27	0% B	0% B	0.1% A	0.1% A	0.02% B	0% B
Proteobacteria	28	0.01% B	0% B	0% B	0.06% A	0% B	0.04% A

Proteobacteria	29	0% C	0% C	0% C	0.01% B	0.01% B	0.02% A
Proteobacteria	30	0% B	0% B	0.03% B	0.01% B	0.15% A	0.02% B
Proteobacteria	31	0.05% A	0% B	0% B	0% B	0.01% B	0.01% B
Rokubacteria	1	0.01% BC	0.02% A	0% CD	0% D	0.01% B	0.01% B
Rokubacteria	2	0% C	0% C	0% C	0.01% A	0.01% B	0% BC
Rokubacteria	3	0% B	0% B	0% B	0% A	0% B	0% B
Rokubacteria	4	0.06% A	0% A	0% A	0% A	0% A	0% A
Verrucomicrobia	1	0% C	0% B	0% C	0% C	0.01% A	0% B
Verrucomicrobia	2	0.01% AB	0% B	0.01% AB	0% B	0.02% A	0% AB
Verrucomicrobia	3	0.01% B	0% B	0.02% A	0% B	0.01% B	0% B
Verrucomicrobia	4	0.09% A	0% A	0% A	0% A	0% A	0% A
Zixibacteria	1	0% A	0% A	0% A	0% A	0% A	0% A
Cluster centroid		0.06% A	0.04% A	0.05% A	0.04% A	0.07% A	0.04% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S11. Comparison of fungal cluster 1 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Percentage of abundance per OTUs per genera in cluster 1 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Plenodomus</i>	1.4% B ^b	1.3% B	8.0% AB	10.3% AB	29.7% A	3.5% AB

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S12. Comparison of fungal cluster 2 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Percentage of abundance per OTUs per genera in cluster 2 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Trichoderma</i>	24.6% A ^b	24.9% A	20.5% A	14.4% A	11.4% A	17.0% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S13. Comparison of fungal cluster 3 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Percentage of abundance per OTUs per genera in cluster 3 ^a							
Phylum	Genus	-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Basidomycota	<i>Subulicystidium</i>	0.3%C ^b	0% C	0.5% C	11.8% A	1.1% B	10.9% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S14. Comparison of fungal cluster 4 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME2.org/>).

Percentage of abundance per OTUs per genera in cluster 4 ^a							
Phylum	Genus	-5 dph	10dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Acremonium</i>	4.7% A ^b	5.6% A*	3.1% A	1.9% A	3.0% A	2.6% A
Ascomycota	<i>Ascomycota_24</i>	3.9% A	6.0% A	5.0% A	5.5% A	0.9% A	2.6% A
Ascomycota	<i>Ascomycota_33</i>	1.2% A	1.1% A	4.3% A	1.7% A	4.0% A	3.2% A
Ascomycota	<i>Penicillium</i>	7.2% A	5.6% A	6.5% A	1.7% A	7.7% A	5.2% A
Ascomycota	<i>Schizothecium</i>	2.1% B	0.9% B	1.1% B	2.8% AB	1.5% B	5.2% A
Ascomycota	<i>Talaromyces</i>	3.2% AB	2.0% B	4.3% AB	3.5% AB	3.5% AB	7.6% A
Mortierellomycota	<i>Mortierella</i>	1.3% B	4.7% A	2.9% AB	3.5% AB	2.3% AB	3.3% AB
Cluster centroid		3.4% A	3.7% A	3.9% A	2.9% A	3.3% A	4.2 % A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S15. Comparison of fungal cluster 5 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME2.org/>).

Phylum	Genus	Percentage of abundance per OTUs per genera in cluster 5 ^a					
		-5 dph	10 dph	41 dph	73dph	198 dph	231dph
Ascomycota	<i>Ascomycota_01</i>	0.2% A ^b	0% B	0% B	0% B	0% B	1.2% A
Ascomycota	<i>Ascomycota_16</i>	0% B	0.8% A	0.3% A	0.4% A	0.2% A	1.1% A
Ascomycota	<i>Ascomycota_28</i>	0.3% A	0% B	0.3% A	0.5% A	0.1% A	1.6% A
Ascomycota	<i>Ascomycota_29</i>	0% B	0.7% A	0.2% A	1.0% A	0% B	0.4% A
Ascomycota	<i>Aspergillus</i>	0.4% A	0.2% A	0.4% A	0% B	0.5% A	0.9% A
Ascomycota	<i>Eucaspshaeria</i>	0% B	0.5% A	0.4% A	0.1% A	0.7% A	0.2% A
Ascomycota	<i>Metapochonia</i>	0.6% A	0.7% A	0.3% A	0.3% A	0.1% A	0.4% A
Ascomycota	<i>Volutella</i>	0.3% A	0.6% A	0.4% A	0.3% A	0.6% A	0.5% A
Chytridiomycota	<i>Sclerostagonospora</i>	0.1% A	0.6% A	1.0% A	0.5% A	0.3% A	0.9% A
Chytridiomycota	<i>Spizellomyces_1</i>	0.5% A	0.4% A	0.5% A	0.1% A	0.2% A	0.4% A
Rozellomycota	<i>Rozellomycota</i>	0.7% A	0.8% A	0.3% A	0.3% A	0.4% A	0.6% A
Cluster centroid		0.3% A	0.5% A	0.4% A	0.3% A	0.3% A	0.7% A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S16. Comparison of fungal cluster 6 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Phylum	Genus	Percentage of abundance per OTUs per genera in cluster 6 ^a					
		-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Ascomycota_04</i>	1.4% AB ^b	2.1% A	0.3% C	0.9% B	0.8% B	0.6% B
Ascomycota	<i>Ascomycota_26</i>	2.4% B	3.0% A	1.7% B	3.3% A	0.5% B	0.9% B
Ascomycota	<i>Ascomycota_27</i>	2.9% B	5.1% A	0.7% B	1.7% B	1.1% B	0.5% C
Ascomycota	<i>Ascomycota_30</i>	1.9% B	2.7% A	1.1% B	1.6% B	0.9% B	0.6% B
Ascomycota	<i>Ascomycota_34</i>	1.6% B	2.6% A	0% D	1.6% B	0.2% C	0% D
Ascomycota	<i>Chaetomium</i>	1.3% B	4.1% A	0.6% B	1.4% B	2.5% AB	0.5% B
Ascomycota	<i>Sarocladium</i>	2.6% A	2.1% A	3.9% A	0.7% A	1.5% A	1.0% A
	Cluster centroid	2.0% AB	3.1% A	1.2% B	1.6% AB	1.1% B	0.6% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S17. Comparison of fungal cluster 7 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME2.org/>).

Phylum	Genus	Percentage of abundance per OTUs per genera in cluster 7 ^a					
		-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Alternaria</i>	2.4% A ^b	0% C	1.2% B	0.2% B	0.1% B	0.5% B
Ascomycota	<i>Ascomycota_21</i>	0.6% B	0% C	0% C	0.4% B	1.1% A	0.6% B
Ascomycota	<i>Neosetophoma</i>	1.4% A	0.8% A	0.5% A	0.9% A	0.7% A	0.9% A
Ascomycota	<i>Oidiodendron</i>	1.6% A	0% C	0.9% AB	0.3% B	0.2% B	0.3% B
Ascomycota	<i>Tetracladium</i>	2.6% A	0.5% B	0.2% B	0.3% B	0.6% B	0.5% B
	Cluster centroid	1.7% A	0.3% AB	0.6% AB	0.4% AB	0.5% AB	0.5% AB

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S18. Comparison of fungal cluster 8 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Phylum	Genus	Percentage of abundance per OTUs per genera in cluster 8 ^a					
		-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Ascomycota_11</i>	0% D ^b	0.1% C	2.1% B	2.9% A	0.1% C	0% D
Ascomycota	<i>Ascomycota_18</i>	1.0% B	1.1% B	2.3% AB	2.4% A	1.5% B	0.5% B
Ascomycota	<i>Ascomycota_23</i>	1.0% B	1.1% B	0.6% BC	1.9% A	0.2% C	0% D
	Cluster centroid	0.7% B	0.7% B	1.7% B	2.4% A	0.6% B	0.2% B

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S19. Comparison of fungal cluster 9 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME 2.org/>).

Ascomycota	<i>Hymenula</i>	0% A	0.1% A	0.2% A	0.1% A	0% A	0% A
Ascomycota	<i>Iodophanus</i>	0% A					
Ascomycota	<i>Knufia</i>	0% B	0% B	0% B	0% B	0.2% A	0% B
Ascomycota	<i>Lecythophora</i>	0.1% A	0% A	0% A	0.2% A	0.1% A	0.1% A
Ascomycota	<i>Malbranchea</i>	0.3% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Murisporia</i>	0% A	0% A	0% A	0.1% A	0% A	0.2% A
Ascomycota	<i>Myrmecridium</i>	0% B	0% B	0% B	0.6% A	0% B	0% B
Ascomycota	<i>Paraphoma</i>	0% A					
Ascomycota	<i>Parathyridaria</i>	0% B	0% B	0% B	0.6% A	0% B	0% B
Ascomycota	<i>Phialemonium</i>	0% A	0% A	0% A	0% A	0.1% A	0.1% A
Ascomycota	<i>Pseudodogymnoacs</i>	0% A					
Ascomycota	<i>Stachybotrys</i>	0% A	0% A	0% A	0% A	0.2% A	0% A
Basidiomycota	<i>Basidiomycota_02</i>	0% A	0.4% A				
Basidiomycota	<i>Basidiomycota_03</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Basidiomycota_07</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Basidiomycota	<i>Basidiomycota_08</i>	0% A	0% A	0% A	0.3% A	0% A	0.1% A
Basidiomycota	<i>Basidiomycota_10</i>	0% A	0% A	0% A	0% A	0.0% A	0% A
Basidiomycota	<i>Bovista</i>	0% A	0% A	0% A	0% A	0.0% A	0% A
Basidiomycota	<i>Conocybe</i>	0% A					
Basidiomycota	<i>Crepidotus</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Entoloma</i>	0% A					
Basidiomycota	<i>Filobasidium</i>	0.3% A	0% B				
Basidiomycota	<i>Geminibasidium</i>	0% B	0.3% A	0% B	0% B	0% B	0% B
Basidiomycota	<i>Heterocephalacria</i>	0.1% A	0.2% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Irpea</i>	0% A					
Basidiomycota	<i>Mycena</i>	0% A					
Basidiomycota	<i>Peniophora</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Phlebia</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Piskurozyma</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Basidiomycota	<i>Plicaturopsis</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Pluteus</i>	0% A					
Basidiomycota	<i>Postia</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Psathyrella</i>	0% A	0% A	0.1% A	0% A	0% A	0% A
Basidiomycota	<i>Scopuloides</i>	0% A	0% A	0.1% A	0% A	0% A	0% A
Basidiomycota	<i>Sistotrema</i>	0% A	0% A	0.2% A	0.1% A	0% A	0% A
Basidiomycota	<i>Solicoccozyma</i>	0.1% A	0% A	0% A	0% A	0% A	0% A
Basidiomycota	<i>Steccherinum</i>	0% A					
Basidiomycota	<i>Suillus</i>	0% A					
Basidiomycota	<i>Trametes</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Udeniozyma</i>	0% A					
Basidiomycota	<i>Waitea</i>	0% A					
Chytridiomycota	<i>Chytridiomycota_01</i>	0.2% A	0.1% A	0.1% A	0.1% A	0.1% A	0% A
Chytridiomycota	<i>Chytridiomycota_02</i>	0% A	0% A	0% A	0% A	0.1% A	0.1% A

Chytridiomycota	<i>Chytridiomycota_03</i>	0% A	0% A	0% A	0% A	0.1% A	0% A
Chytridiomycota	<i>Operculomyces</i>	0.2% A	0% A	0.1% A	0% A	0% A	0% A
Chytridiomycota	<i>Powellomyces</i>	0% A	0% A	0% A	0% A	0.1% A	0% A
Chytridiomycota	<i>Rhizophlyctis</i>	0.1% A	0.2% A	0% A	0.1% A	0% A	0% A
Chytridiomycota	<i>Spizellomyces</i>	0% A	0.1% A	0.0% A	0.1% A	0.0% A	0% A
Mucoromycota	<i>Umbelopsis</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Zoopagomycota	<i>Zoopagomycota</i>	0% B	0% B	0% B	0.3% A	0% B	0% B
Cluster centroid		0.003%A	0.003%A	0.003%A	0.005%A	0.002%A	0.003%A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.

Table S20. Comparison of fungal cluster 10 of OTU abundance over time. Average number of genus-level OTUs per g soil from five plots in a commercial American ginseng *Panax quinquefolius* garden at just prior -5 dph and after harvest 10, 41, 73, 198 and 231 dph. Genus names for OTUs identified based on 97% nt identity of the 220 - 280 bp ITS2 region of the 18S rRNA using QIIME 2 with the UNITE v8.0 database (release 2019.10, <https://QIIME2.org/>).

Phylum	Genus	Percentage of abundance per OTUs per genera in cluster 10^a					
		-5 dph	10 dph	41 dph	73 dph	198 dph	231 dph
Ascomycota	<i>Arcopilus</i>	0% A ^b	0.1% A	0.1% A	0% A	0% A	0.2% A
Ascomycota	<i>Arthrinium</i>	0.3% A	0% A	0% A	0.2% A	0.1% A	0% A
Ascomycota	<i>Articulospora</i>	0% A	0% A	0.1% A	0% A	0.1% A	0% A
Ascomycota	<i>Ascomycota_02</i>	0% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_06</i>	0% A	0% A	0% A	0% A	0.1% A	0.1% A
Ascomycota	<i>Ascomycota_07</i>	0% A	0.2% A	0.0% A	0% A	0.0% A	0.0% A
Ascomycota	<i>Ascomycota_08</i>	0% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_09</i>	0% A	0% A	0.2% A	0.1% A	0% A	0% A
Ascomycota	<i>Ascomycota_10</i>	0% A	0% A	0.0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_12</i>	0% A	0% A	0.2% A	0.3% A	0% A	0% A
Ascomycota	<i>Ascomycota_13</i>	0% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_14</i>	0% A	0% A	0% A	0% A	0.3% A	0% A
Ascomycota	<i>Ascomycota_15</i>	0% A	0.2% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_20</i>	0% A	0.4% A	0% A	0.3% A	0.1% A	0.1% A
Ascomycota	<i>Ascomycota_31</i>	0% A	0% A	0.0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_32</i>	0% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_37</i>	0% A	0% A	0% A	0% A	0.1% A	0% A
Ascomycota	<i>Ascomycota_38</i>	0% A	0.2% A	0.3% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_39</i>	0% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_40</i>	0.1% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_41</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Ascomycota	<i>Ascomycota_42</i>	0% A	0% A	0.1% A	0.1% A	0% A	0% A
Ascomycota	<i>Ascomycota_43</i>	0.2% A	0.3% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_44</i>	0.0% A	0% A	0.0% A	0% A	0% A	0.1% A
Ascomycota	<i>Ascomycota_45</i>	0% A	0.2% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Ascomycota_46</i>	0% A	0% A	0% A	0% A	0.0% A	0% A
Ascomycota	<i>Bipolaris</i>	0.2% A	0% B	0% B	0% B	0% B	0% B

Ascomycota	<i>Cercospora</i>	0% A	0% A	0.1% A	0% A	0.1% A	0.1% A
Ascomycota	<i>Chaetosphaeria</i>	0% A	0% A	0% A	0.1% A	0% A	0.3% A
Ascomycota	<i>Chrysosporium</i>	0.2% A	0% A	0.1% A	0% A	0.1% A	0% A
Ascomycota	<i>Cistella</i>	0% A					
Ascomycota	<i>Colletotrichum</i>	0% B	0.2% A				
Ascomycota	<i>Cytospora</i>	0% A	0.0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Dactyella</i>	0% B	0% B	0.3% A	0% B	0% B	0% B
Ascomycota	<i>Dinemasporium</i>	0% A					
Ascomycota	<i>Hymenoscyphus</i>	0% A	0.2% A				
Ascomycota	<i>Hymenula</i>	0% A	0.1% A	0.2% A	0.1% A	0% A	0% A
Ascomycota	<i>Iodophanus</i>	0% A					
Ascomycota	<i>Knufia</i>	0% B	0% B	0% B	0% B	0.2% A	0% B
Ascomycota	<i>Lecythophora</i>	0.1% A	0% A	0% A	0.2% A	0.1% A	0.1% A
Ascomycota	<i>Malbranchea</i>	0.3% A	0% A	0% A	0% A	0% A	0% A
Ascomycota	<i>Murisporia</i>	0% A	0% A	0% A	0.1% A	0% A	0.2% A
Ascomycota	<i>Myrmecridium</i>	0% B	0% B	0% B	0.6% A	0% B	0% B
Ascomycota	<i>Paraphoma</i>	0% A					
Ascomycota	<i>Parathyridaria</i>	0% B	0% B	0% B	0.6% A	0% B	0% B
Ascomycota	<i>Phialemonium</i>	0% A	0% A	0% A	0% A	0.1% A	0.1% A
Ascomycota	<i>Pseudodogymnoascus</i>	0% A					
Ascomycota	<i>Stachybotrys</i>	0% A	0% A	0% A	0% A	0.2% A	0% A
Basidiomycota	<i>Basidiomycota_02</i>	0% A	0.4% A				
Basidiomycota	<i>Basidiomycota_03</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Basidiomycota_07</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Basidiomycota	<i>Basidiomycota_08</i>	0% A	0% A	0% A	0.3% A	0% A	0.1% A
Basidiomycota	<i>Basidiomycota_10</i>	0% A	0% A	0% A	0% A	0.0% A	0% A
Basidiomycota	<i>Bovista</i>	0% A	0% A	0% A	0% A	0.0% A	0% A
Basidiomycota	<i>Conocybe</i>	0% A	0.0% A				
Basidiomycota	<i>Crepidotus</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Entoloma</i>	0% A					
Basidiomycota	<i>Filobasidium</i>	0.3% A	0% B				
Basidiomycota	<i>Geminibasidium</i>	0% B	0.3% A	0% B	0% B	0% B	0% B
Basidiomycota	<i>Heterocephalacria</i>	0.1% A	0.2% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Irpea</i>	0% A					
Basidiomycota	<i>Mycena</i>	0% A					

Basidiomycota	<i>Peniophora</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Phlebia</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Piskurozyma</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Basidiomycota	<i>Plicaturopsis</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Pluteus</i>	0% A					
Basidiomycota	<i>Postia</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Psathyrella</i>	0% A	0% A	0.1% A	0% A	0% A	0% A
Basidiomycota	<i>Scopuloides</i>	0% A	0% A	0.1% A	0% A	0% A	0% A
Basidiomycota	<i>Sistotrema</i>	0% A	0% A	0.2% A	0.1% A	0% A	0% A
Basidiomycota	<i>Solicoccozyma</i>	0.1% A	0% A	0% A	0% A	0% A	0% A
Basidiomycota	<i>Steccherinum</i>	0% A					
Basidiomycota	<i>Suillus</i>	0% A					
Basidiomycota	<i>Trametes</i>	0% A	0% A	0% A	0.1% A	0% A	0% A
Basidiomycota	<i>Udeniozyma</i>	0% A					
Basidiomycota	<i>Waitea</i>	0% A	0.0% A				
Chytridiomycota	<i>Chytridiomycota_01</i>	0.2% A	0.1% A	0.1% A	0.1% A	0.1% A	0% A
Chytridiomycota	<i>Chytridiomycota_02</i>	0% A	0% A	0% A	0% A	0.1% A	0.1% A
Chytridiomycota	<i>Chytridiomycota_03</i>	0% A	0% A	0% A	0% A	0.1% A	0% A
Chytridiomycota	<i>Operculomyces</i>	0.2% A	0% A	0.1% A	0% A	0% A	0% A
Chytridiomycota	<i>Powellomyces</i>	0% A	0% A	0% A	0% A	0.1% A	0% A
Chytridiomycota	<i>Rhizophlyctis</i>	0.1% A	0.2% A	0% A	0.1% A	0% A	0% A
Chytridiomycota	<i>Spizellomyces</i>	0% A	0.1% A	0.0% A	0.1% A	0.0% A	0% A
Mucoromycota	<i>Umbelopsis</i>	0% A	0% A	0% A	0.0% A	0% A	0% A
Zoopagomycota	<i>Zoopagomycota</i>	0% B	0% B	0% B	0.3% A	0% B	0% B
Cluster centroid		0.003%A	0.003%A	0.003%A	0.005%A	0.002%A	0.003%A

^aCluster was created by K-means clustering algorithm in R separating OTU abundance over dph into 10 clusters [35]. Cluster centroid was created by the average within the K-mean cluster.

^bLetter following percentages indicate significant difference over time based on general lineal model ANOVA followed by Fisher's Least Significant Difference LSD test p<0.05.