Table S2. A list of ectomycorrhizal (EM) fungal OTUs present in soil cores from undisturbed and severely beetled-killed (>60% Pinus contorta killed basal area) stands of west-central Alberta, Canada. A CLAM analysis was performed to classify EM fungal OTUs into the following categories: EM fungi primarily found in undisturbed forest stands (Undisturbed), EM fungi primarily found in beetle-killed forest stands (Beetle-killed), and fungi common in both undisturbed and beetle-killed forest stands (Shared).

|  |  |  |  |
| --- | --- | --- | --- |
| **Taxonomic**  **affiliation** | **Phylum** | **Order** | **Classification**  **category** |
| |  | | --- | | *Amphinema* | | *Russula* | | *Cortinarius* | | *Russula\_\_1* | | *Piloderma* | | *Cortinarius\_\_1* | | *Cortinarius\_\_2* | | *Russulaceae* | | *Cortinarius\_\_3* | | *Cortinarius\_\_4* | | *Cortinarius\_\_5* | | *Suillus* | | *Russula\_\_2* | | *Russula\_\_3* | | *Cortinarius\_\_6* | | *Hymenogaster* | | *Cortinarius\_\_7* | | *Cortinarius\_\_8* | | *Pseudotomentella* | | *Tomentella* | | *Cortinarius\_\_9* | | *Russula\_\_4* | | *Cortinarius\_\_10* | | *Russula\_\_5* | | *Cortinarius\_\_11* | | *Tomentella\_\_1* | | *Hygrophorus* | | *Russulaceae\_\_1* | | *Russulaceae\_\_2* | | *Russula\_\_6* | | *Russula\_\_7* | | *Russula\_\_8* | | *Russula\_\_9* | | *Cortinarius\_\_12* | | *Russula\_\_10* | | *Amphinema\_\_1* | | *Tylospora* | | *Inocybaceae* | | *Russula\_\_11* | | *Russula\_\_12* | | *Gymnomyces* | | *Rhizopogon* | | *Pseudotomentella\_\_1* | | *Piloderma\_\_1* | | *Cortinarius\_\_13* | | *Cortinarius\_\_14* | | *Cortinarius\_\_15* | | *Russula\_\_13* | | *Piloderma\_\_2* | | *Cortinarius\_\_16* | | *Cortinarius\_\_17* | | *Cortinarius\_\_18* | | *Russula\_\_14* | | *Tomentella\_\_2* | | *Wilcoxina* | | *Inocybaceae\_\_1* | | *Russula\_\_15* | | *Hygrophorus\_\_1* | | *Wilcoxina\_\_1* | | *Tylospora\_\_1* | | *Russula\_\_16* | | *Cortinarius\_\_19* | | *Cortinarius\_\_20* | | *Tomentella\_\_3* | | *Amphinema\_\_2* | | *Cortinarius\_\_21* | | *Tylospora\_\_2* | | *Piloderma\_\_3* | | *Sebacinaceae* | | *Inocybaceae\_\_2* | | *Cortinarius\_\_22* | | *Piloderma\_\_4* | | *Tomentella\_\_4* | | *Tomentella\_\_5* | | *Suillus\_\_1* | | *Russula\_\_17* | | *Cortinarius\_\_23* | | *Piloderma\_\_5* | | *Piloderma\_\_6* | | *Russula\_\_18* | | *Cortinarius\_\_24* | | *Piloderma\_\_7* | | *Suillus\_\_2* | | *Piloderma\_\_8* | | *Tuber* | | *Piloderma\_\_9* | | *Tomentella\_\_6* | | *Russula\_\_19* | | *Russulaceae\_\_3* | | *Russula\_\_20* | | *Tomentella\_\_7* | | *Tylospora\_\_3* | | *Russula\_\_21* | | *Russula\_\_22* | | *Cortinarius\_\_25* | | *Cortinarius\_\_26* | | *Tomentella\_\_8* | | *Lactarius* | | *Russula\_\_23* | | *Elaphomyces* | | *Piloderma\_\_10* | | *Piloderma\_\_11* | | *Piloderma\_\_12* | | *Russula\_\_24* | | *Piloderma\_\_13* | | *Piloderma\_\_14* | | *Russula\_\_25* | | *Russula\_\_26* | | *Russulaceae\_\_4* | | *Cortinarius\_\_27* | | *Cortinarius\_\_28* | | *Lactarius\_\_1* | | *Tylospora\_\_4* | | *Sphaerosporella* | | *Piloderma\_\_15* | | *Wilcoxina\_\_2* | | *Tomentella\_\_9* | | *Tomentella\_\_10* | | *Tomentella\_\_11* | | *Hygrophorus\_\_2* | | *Tylospora\_\_5* | | |  | | --- | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Ascomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | Basidiomycota | | |  | | --- | | Atheliales | | Russulales | | Agaricales | | Russulales | | Atheliales | | Agaricales | | Agaricales | | Russulales | | Agaricales | | Agaricales | | Agaricales | | Boletales | | Russulales | | Russulales | | Agaricales | | Agaricales | | Agaricales | | Agaricales | | Thelephorales | | Thelephorales | | Agaricales | | Russulales | | Agaricales | | Russulales | | Agaricales | | Thelephorales | | Agaricales | | Russulales | | Russulales | | Russulales | | Russulales | | Russulales | | Russulales | | Agaricales | | Russulales | | Atheliales | | Atheliales | | Agaricales | | Russulales | | Russulales | | Russulales | | Boletales | | Thelephorales | | Atheliales | | Agaricales | | Agaricales | | Agaricales | | Russulales | | Atheliales | | Agaricales | | Agaricales | | Agaricales | | Russulales | | Thelephorales | | Pezizales | | Agaricales | | Russulales | | Agaricales | | Pezizales | | Atheliales | | Russulales | | Agaricales | | Agaricales | | Thelephorales | | Atheliales | | Agaricales | | Atheliales | | Atheliales | | Sebacinales | | Agaricales | | Agaricales | | Atheliales | | Thelephorales | | Thelephorales | | Boletales | | Russulales | | Agaricales | | Atheliales | | Atheliales | | Russulales | | Agaricales | | Atheliales | | Boletales | | Atheliales | | Pezizales | | Atheliales | | Thelephorales | | Russulales | | Russulales | | Russulales | | Thelephorales | | Atheliales | | Russulales | | Russulales | | Agaricales | | Agaricales | | Thelephorales | | Russulales | | Russulales | | Eurotiales | | Atheliales | | Atheliales | | Atheliales | | Russulales | | Atheliales | | Atheliales | | Russulales | | Russulales | | Russulales | | Agaricales | | Agaricales | | Russulales | | Atheliales | | Pezizales | | Atheliales | | Pezizales | | Thelephorales | | Thelephorales | | Thelephorales | | Agaricales | | Atheliales | | |  | | --- | | Shared | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Undisturbed | | Shared | | Shared | | Shared | | Undisturbed | | Beetle-killed | | Shared | | Undisturbed | | Shared | | Shared | | Undisturbed | | Undisturbed | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Undisturbed | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Beetle-killed | | Shared | | Shared | | Shared | | Shared | | Undisturbed | | Undisturbed | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Shared | | Beetle-killed | | Shared | | Shared | | Shared | | Beetle-killed | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Beetle-killed | | Shared | | Beetle-killed | | Undisturbed | | Undisturbed | | Beetle-killed | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Shared | | Undisturbed | | Shared | | Shared | | Beetle-killed | | Shared | | Beetle-killed | | Shared | | Shared | | Beetle-killed | | Shared | | Beetle-killed | | Shared | | Beetle-killed | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Shared | | Beetle-killed | | Shared | |
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