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).

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| **Taxonomic** **affiliation** | **Phylum** | **Order** | **Classification** **category** |
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| *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* |
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| *Russula\_\_26* |
| *Russulaceae\_\_4* |
| *Cortinarius\_\_27* |
| *Cortinarius\_\_28* |
| *Lactarius\_\_1* |
| *Tylospora\_\_4* |
| *Sphaerosporella* |
| *Piloderma\_\_15* |
| *Wilcoxina\_\_2* |
| *Tomentella\_\_9* |
| *Tomentella\_\_10* |
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| *Hygrophorus\_\_2* |
| *Tylospora\_\_5* |

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