

Table S1. The comparison of ectomycorrhizal fungal taxa associated with *Carya laciniosa* and *C. cordiformis* naturally regenerated seedlings from Kórnik Arboretum (Poland) and with *C. illinoensis* trees from native range in southeast North America (Bonito et al. 2011).

Order	Family	Ectomycorrhizal fungal taxa associated with <i>Carya</i> species		
		Kórnik Arboretum in Poland		North America (Bonito 2011)
		<i>C. laciniosa</i>	<i>C. cordiformis</i>	<i>C. illinoensis</i>
Agaricales	Cortinariaceae	<i>Cortinarius subexitiosus</i>		
	Hydnangiaceae	<i>Laccaria laccata</i>		
	Hymenogastraceae	<i>Hebeloma leucosarx</i>		<i>Hebeloma</i> sp. 1
				<i>Hebeloma</i> sp. 2
				<i>Hymenogaster</i> sp.
				<i>Naucoria</i> sp.
	Inocybaceae	<i>Inocybe asterospora</i>		<i>Inocybe</i> sp. 1
		<i>Inocybe pusio</i>		<i>Inocybe</i> sp. 2
	Tricholomaceae			<i>Inocybe</i> sp. 3
				<i>Tricholomaceae</i> 1
Boletales	Boletaceae	<i>Xerocomellus cisalpinus</i>		<i>Tricholomaceae</i> 2
			<i>Xerocomellus cisalpinus</i>	<i>Boletus</i> sp.
	Diplocystaceae			<i>Xerocomus</i> sp.
	Paxillaceae		<i>Melanogaster ambiguus</i>	<i>Astreaus</i> sp.
	Sclerodermaceae	<i>Scleroderma</i> sp.		
				<i>Scleroderma</i> sp. 1
				<i>Scleroderma</i> sp. 2
Cantharellales	Hydnaceae			<i>Scleroderma</i> sp. 3
Eurotiales	Elaphomycetaceae			<i>Sistotrema</i> sp.
	Un Eurotiales			<i>Elaphomyces</i> sp.
Mytilinidiales	Gloniaceae	<i>Cenococcum geophilum</i> s.l.	<i>Cenococcum geophilum</i> s.l.	Un Eurotiales
Pezizales	Discinaceae	<i>Hydnotrya tulasnei</i>		<i>Cenococcum geophilum</i>
	Helvellaceae		<i>Helvella</i> sp.	
	Pezizaceae		<i>Hydnobolites</i> sp.	<i>Pachyphleous</i> sp.
				<i>Peziza</i> sp. 1
				<i>Peziza</i> sp. 2
			<i>Peziza succosa</i>	<i>Pezizaceae</i> 2
				<i>Pezizaceae</i> 3
				<i>Pezizaceae</i> 4
	Pyronemataceae	<i>Humaria hemisphaerica</i>	<i>Humaria hemisphaerica</i>	Un Pyrenomycetaceae
		<i>Otidea alutacea</i>	<i>Otidea bufonia</i>	
	Tuberaceae		<i>Tuber rufum.</i>	<i>Tuber lyonii</i>
			<i>Tuber</i> sp	<i>Tuber</i> sp. 47
				<i>Tuber</i> sp. 36
				<i>Tuber</i> sp. 45

Russulales	Russulaceae	<i>Russula recondita</i>	<i>Russula parazurea</i>	<i>Russula</i> sp. 1
				<i>Russula</i> sp. 2
			<i>Russula recondita</i>	<i>Russula</i> sp. 3
				<i>Russula</i> sp. 4
				<i>Russula</i> sp. 5
Sebacinales	Sebacinaceae,		<i>Helvellosebacina helvelloides</i>	<i>Sebacina</i> sp.
Thelephorales	Thelephoraceae	<i>Tomentella cinereoumbrina</i>	<i>Tomentella badia</i>	<i>Thelephoraceae</i> sp. 1
		<i>Tomentella</i> sp. 1	<i>Tomentella galzinii</i>	<i>Thelephoraceae</i> sp. 2
		<i>Tomentella</i> sp. 2	<i>Tomentella</i> sp. 4	<i>Thelephoraceae</i> sp. 3
		<i>Tomentella</i> sp. 3		<i>Thelephoraceae</i> sp. 4
		<i>Tomentella</i> sp. 5		<i>Thelephoraceae</i> sp. 5
		<i>Tomentella</i> sp. 6		<i>Thelephoraceae</i> sp. 6
		<i>Tomentella</i> sp. 7		<i>Thelephoraceae</i> sp. 7
		<i>Tomentella</i> sp. 8		
		<i>Tomentella</i> sp. 9		