

class	order	species	Strain ref.	trophic mode	particularity	
<i>Orbiliomycetes</i>	<i>Orbiliales</i>	<i>Arthrobotrys oligospora</i>	CBS 115.81	saprotroph	nematophagous	
<i>Pezizomycetes</i>	<i>Pezizales</i>	<i>Ascodesmis porcina</i>	PSN5	saprotroph	coprophilous	
		<i>Pyronema omphaloïdes</i>	CBS 283.31	saprotroph	soil-borne	
		<i>Morchella conica</i>	PSN22	saprotroph	soil-borne	
		<i>Ascobolus immersus</i>	FB17 (mat-)	saprotroph	coprophilous	
<i>Eurotiomycetes</i>	<i>Eurotiales</i>	<i>Aspergillus niger</i>	AN26	saprotroph	ubiquitous	
		<i>Aspergillus carbonarius</i>	AC19	saprotroph	ubiquitous	
		<i>Aspergillus fumigatus</i>	PSN184	saprotroph	human pathogen	
		<i>Penicillium expansum</i>	PSN81	saprotroph	ubiquitous	
		<i>Penicillium chrysogenum</i>	peni C	saprotroph	ubiquitous	
		<i>Penicillium chrysogenum</i>	peni D	saprotroph	ubiquitous	
<i>Dothideomycetes</i>	<i>Capnodiales</i>	<i>Cladosporium sphaerospermum</i>	BCCM-IHEM 3169	saprotroph	habitats	
	<i>Pleosporales</i>	<i>Preussia aff. minima</i>	PSN296	saprotroph	coprophilous	
<i>Leotiomycetes</i>	<i>Helotiales</i>	<i>Botrytis cinerea</i>	B05.10	phytopathogen	necrotrophic	
<i>Sordariomycetes</i>	<i>Xylariales</i>	<i>Xylaria polymorpha</i>	PSN28	saprotroph	wood degrader	
		<i>Poria punctata</i>	CBS 656,78	saprotroph	wood degrader	
		<i>Hypocopra anomala</i>	CBS 124649	saprotroph	wood degrader	
		<i>Daldinia concentrica</i>	PSN218	saprotroph	wood degrader	
	<i>Hypocreales</i>	<i>Trichoderma reesei</i>	CBS 383.78	saprotroph	ubiquitous	
		<i>Trichoderma aff. harzanium</i>	PSN262	saprotroph	mycoparasite	
		<i>Trichoderma virens</i>	CBS 430.54	saprotroph	mycoparasite	
		<i>Fusarium graminearum</i>	PH1	phytopathogen	hemibiotrophic	
	<i>Sordariales</i>	<i>Chaetomium globosum</i>	DSMZ 62,110	saprotroph	coprophilous	
		<i>Chaetomium longicolleum</i>	CBS 119.57	saprotroph	coprophilous	
		<i>Podospora fimiseda</i>	CBS 990.96	saprotroph	coprophilous	
		<i>Podospora anserina</i>	"Big S" strain	saprotroph	coprophilous	
		<i>Neurospora crassa</i>	OR74A	saprotroph	ubiquitous	
		<i>Sordaria macrospora</i>	000	saprotroph	coprophilous	
		<i>Podospora aff. curvuloides</i>	PSN258	saprotroph	coprophilous	
		<i>Schizothecium sp.</i>	PSN244	saprotroph	coprophilous	
	<i>Agaricomycetes</i>	<i>Agaricales</i>	<i>Schizophyllum commune</i>	PSN11	saprotroph	wood degrader
			<i>Coprinopsis cinerea</i>	H5	saprotroph	soil-borne
<i>Polyporales</i>		<i>Phanerochaete chrysosporium</i>	RP78	saprotroph	wood degrader	
<i>Geastrales</i>		<i>Sphaerobolus stellatus</i>	DSM1028	saprotroph	wood degrader	
<i>Cantharelalles</i>		<i>Rhizoctonia solani</i>	SB1	phytopathogen	necrotrophic	
<i>Mucoromycetes</i>	<i>Mucorales</i>	<i>Mucor hiemalis</i>	PSN56	saprotroph	ubiquitous	
		<i>Rhizopus oryzae</i>	RA 99880	saprotroph	ubiquitous	
		<i>Phycomyces blakesleeanus</i>	NRRL1555 (mat-)	saprotroph	ubiquitous	

Table S1 : strains list