Table S1. Raw reads and alpha diversity indices: observed ASVs, Shannon richness and Faith's phylogenetic diversity of fungal communities in December 2020 campaign.

SAMPLE	RAW READS	OBSERVED ASVS	SHANNON	FAITH-PD
E	147167	420	6.96	61.60
P1	14620	45	4.76	10.56
P2	97741	18	2.64	3.39
P4	62713	21	2.61	4.84
P5	37485	8	1.34	2.19
P6	23333	4	0.69	1.61
P7	95589	13	1.87	3.19

Table S2. Relative abundance of fungal species (abundances over 1%) in 2020

Phylum	Class	Order	Family	Genus	Species	E	P1	P2	P4	P5	P6	P7
Ascomycota	*Dothideomycetes*	*Botryosphaeriales*	unidentified	unidentified	unidentified	3 .79	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Capnodiales*	*Cladosporiaceae*	*Cladosporium*	*Cladosporium sphaerospermum*	0 .00	8 .40	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Dothideales*	*Aureobasidiaceae*	*Aureobasidium*	*Aureobasidium pullulans*	0 .00	4 .68	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	*Massarinaceae*	*Massarina*	unidentified	1 .53	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	*Phaeosphaeriaceae*	*Paraphoma*	unidentified	2 .60	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	*Pleosporaceae*	*Ulocladium*	*Ulocladium chartarum*	1 .66	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	*Pleosporales fam Incertae sedis*	*Latorua*	*Latorua caligans*	4 .32	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	*Sporormiaceae*	*Preussia*	unidentified	0 .00	0 .00	21 .75	1 .46	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	*Pleosporales*	unidentified	unidentified	unidentified	9 .23	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Dothideomycetes*	unidentified	unidentified	unidentified	unidentified	1 .51	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Chaetothyriales*	unidentified	unidentified	unidentified	1 .02	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Aspergillaceae*	*Aspergillus*	*Aspergillus protuberus*	0 .00	6 .50	0 .00	0 .00	0 .00	0 .00	0 .00

Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Aspergillaceae*	*Aspergillus*	*Aspergillus tamarii*	1 .23	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Aspergillaceae*	*Aspergillus*	unidentified	3 .55	9 .65	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Aspergillaceae*	*Penicillium*	*Penicillium citrinum*	0 .00	0 .00	0 .00	0 .00	5 .52	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Aspergillaceae*	*Penicillium*	unidentified	0 .08	0 .00	1 .84	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Trichocomaceae*	*Talaromyces*	*Talaromyces acaricola*	0 .00	9 .40	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Trichocomaceae*	*Talaromyces*	*Talaromyces wortmannii*	0 .00	5 .88	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Eurotiales*	*Trichocomaceae*	*Talaromyces*	unidentified	0 .02	1 .22	1 .08	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Onygenales*	*Arthrodermataceae*	*Trichophyton*	*Trichophyton ajelloi*	0 .00	0 .00	0 .00	0 .00	14 .32	0 .00	0 .00
Ascomycota	*Eurotiomycetes*	*Onygenales*	*Onygenales fam Incertae sedis*	*Chrysosporium*	*Chrysosporium pseudomerdarium*	0 .00	0 .00	6 .17	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Leotiomycetes*	*Helotiales*	*Helotiales fam Incertae sedis*	*Rhexocercos-poridium*	*Rhexocercospori-dium panacis*	0 .23	4 .18	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Leotiomycetes*	*Helotiales*	*Pezizellaceae*	*Porodiplodia*	*Porodiplodia vitis*	0 .00	7 .35	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Leotiomycetes*	*Thelebolales*	*Pseudeurotiaceae*	*Pseudogymno-ascus*	unidentified	0 .02	0 .00	2 .87	2 .39	0 .00	0 .00	1 .03
Ascomycota	*Orbiliomycetes*	unidentified	unidentified	unidentified	unidentified	2 .45	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Pezizomycetes*	*Pezizales*	*Pyronemataceae*	*Paratricharina*	*Paratricharina poiraultii*	5 .27	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Saccharomycetes*	*Saccharomycetales*	*Debaryomycetaceae*	*Meyerozyma*	*Meyerozyma guilliermondii*	0 .00	0 .00	0 .00	2 .36	0 .00	0 .00	0 .00
Ascomycota	*Saccharomycetes*	*Saccharomycetales*	*Saccharomycetales fam Incertae sedis*	*Candida*	*Candida parapsilosis*	0 .00	0 .00	8 .82	0 .00	0 .00	52 .52	17 .63
Ascomycota	*Sordariomycetes*	*Diaporthales*	*Diaporthaceae*	*Diaporthe*	unidentified	0 .00	0 .00	0 .00	0 .00	28 .77	0 .00	0 .00
Ascomycota	*Sordariomycetes*	*Hypocreales*	*Cordycipitaceae*	*Leptobacillium*	*Leptobacillium leptobactrum*	0 .00	0 .00	0 .00	1 .16	0 .00	0 .00	3 .57
Ascomycota	*Sordariomycetes*	*Hypocreales*	*Hypocreales fam Incertae sedis*	*Acremonium*	*Acremonium furcatum*	0 .03	0 .00	0 .00	0 .00	0 .00	0 .00	1 .12
Ascomycota	*Sordariomycetes*	*Hypocreales*	*Nectriaceae*	*Fusarium*	*Fusarium oxysporum*	0 .53	0 .00	3 .74	0 .25	0 .00	0 .00	0 .00
Ascomycota	*Sordariomycetes*	*Hypocreales*	*Nectriaceae*	*Neocosmospora*	*Neocosmospora solani*	0 .00	0 .00	1 .21	18 .77	0 .00	0 .00	1 .34
Ascomycota	*Sordariomycetes*	*Hypocreales*	*Ophiocordycipita-ceae*	*Purpureocillium*	unidentified	0 .00	0 .00	0 .00	14 .57	0 .00	0 .00	0 .00
Ascomycota	*Sordariomycetes*	*Microascales*	*Microascaceae*	*Cephalotrichum*	*Cephalotrichum microsporum*	0 .00	0 .00	30 .55	23 .53	0 .00	0 .00	26 .61
Ascomycota	*Sordariomycetes*	*Sordariales*	unidentified	unidentified	unidentified	1 .46	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Ascomycota	*Sordariomycetes*	unidentified	unidentified	unidentified	unidentified	1 .14	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00

Ascomycota	unidentified	unidentified	unidentified	unidentified	unidentified	11 .83	0 .00	0 .00	0 .89	0 .00	0 .00	0 .00
Basidiomycota	*Agaricomycetes*	*Agaricales*	*Bolbitiaceae*	*Conocybe*	*Conocybe ingridiae*	3 .67	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Agaricomycetes*	*Agaricales*	*Omphalotaceae*	*Omphalotus*	*Omphalotus olearius*	0 .00	0 .00	21 .25	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Agaricomycetes*	*Cantharellales*	*Cantharellales fam Incertae sedis*	*Sistotrema*	*Sistotrema oblongisporum*	0 .00	0 .00	0 .00	0 .00	41 .33	0 .00	0 .00
Basidiomycota	*Agaricomycetes*	*Hymenochaetales*	*Hymenochaetaceae*	*Fomitiporella*	unidentified	0 .00	6 .57	0 .00	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Agaricomycetes*	*Polyporales*	*Fomitopsidaceae*	*Skeletocutis*	*Skeletocutis diluta*	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00	4 .29
Basidiomycota	*Agaricomycetes*	*Russulales*	*Stereaceae*	*Stereum*	*Stereum hirsutum*	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00	12 .78
Basidiomycota	*Agaricomycetes*	unidentified	unidentified	unidentified	unidentified	0 .56	5 .54	0 .00	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Cystobasidiomycetes*	*Cystobasidiales*	*Cystobasidiaceae*	*Cystobasidium*	*Cystobasidium slooffiae*	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00	28 .75
Basidiomycota	*Cystobasidiomycetes*	*Cystobasidiomyce-tes ord Incertae sedis*	*Buckleyzymaceae*	*Buckleyzyma*	unidentified	0 .00	0 .00	0 .00	0 .00	0 .00	47 .48	0 .00
Basidiomycota	*Geminibasidiomycetes*	*Geminibasidiales*	*Geminibasidiaceae*	*Basidioascus*	*Basidioascus persicus*	0 .27	0 .00	0 .00	1 .09	0 .00	0 .00	0 .00
Basidiomycota	*Geminibasidiomycetes*	*Geminibasidiales*	*Geminibasidiaceae*	*Geminibasidium*	unidentified	0 .02	12 .85	0 .00	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Malasseziomycetes*	*Malasseziales*	*Malasseziaceae*	*Malassezia*	*Malassezia globosa*	0 .00	0 .92	0 .00	0 .00	10 .07	0 .00	0 .00
Basidiomycota	*Malasseziomycetes*	*Malasseziales*	*Malasseziaceae*	*Malassezia*	*Malassezia restricta*	0 .00	3 .17	0 .00	0 .00	0 .00	0 .00	0 .02
Basidiomycota	*Tremellomycetes*	*Filobasidiales*	*Piskurozymaceae*	*Solicoccozyma*	*Solicoccozyma aeria*	3 .76	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Basidiomycota	*Tritirachiomycetes*	*Tritirachiales*	*Tritirachiaceae*	*Tritirachium*	*Tritirachium dependens*	0 .00	4 .18	0 .00	0 .00	0 .00	0 .00	0 .00
Glomeromycota	*Glomeromycetes*	*Glomerales*	*Claroideoglomera-ceae*	*Claroideoglo-mus*	unidentified	1 .41	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Glomeromycota	*Glomeromycetes*	*Glomerales*	*Glomeraceae*	*Glomus*	unidentified	2 .32	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Glomeromycota	*Glomeromycetes*	*Glomerales*	*Glomeraceae*	unidentified	unidentified	10 .56	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Monoblepharomyco-ta	*Monoblepharidomyce-tes*	unidentified	unidentified	unidentified	unidentified	2 .01	0 .00	0 .00	0 .00	0 .00	0 .00	0 .00
Mortierellomycota	*Mortierellomycetes*	*Mortierellales*	*Mortierellaceae*	*Mortierella*	*Mortierella alpina*	0 .47	0 .00	0 .00	21 .47	0 .00	0 .00	2 .28
Mortierellomycota	*Mortierellomycetes*	*Mortierellales*	*Mortierellaceae*	*Mortierella*	unidentified	0 .21	0 .00	0 .00	6 .80	0 .00	0 .00	0 .00

Table S3. Ecology of fungal species retrieved in 2020

Species	Ecology							References
	Saprobic	Entomo-pathogen	Endophytic	Keratinolytic	Psychrophilic	Human pathogen	Castañar de Ibor location (see Fig. 1)	
Omphalotus olearius	X						P2	(Chliyeh et al. 2014)
Penicillium	X		X	X	X		E, P2	(Chliyeh et al. 2014; El-Gendy 2010; Hassan et al. 2016; Park et al. 2019)
Fusarium oxysporum	X		X		X		E, P2,P4	(Hassan et al. 2016; Jiménez-Fernández et al. 2010)
Neocosmospora solani	X		X	X	X		E, P2,P7	(Anbu et al. 2011; Hassan et al. 2016; Macedo et al. 2017)
Preussia	X				X		P2, P4	(Gupta et al. 2020)
Pseudogymnoascus pannorum	X			X	X	X	P2, P4, P7	(Gianni et al. 2003; Hassan et al. 2016)
Candida parapsilosis				X	X	X	P2, P6, P7	(Buzzini et al. 2012; Trofa et al. 2008; Vermelho et al. 2010)
Meyerozyma guilliermondii			X		X	X	P4	(Buzzini et al. 2012; Chen et al. 2015; Cooper 2011)
Mortierella alpina	X		X		X		E, P4, P7	(Hassan et al. 2016; Wagner et al. 2013; Wani et al. 2017)
Mortierella	X				X		P4, P7	(Hassan et al. 2016; Wagner et al. 2013)
Penicillium citrinum	X		X	X	X		P5	(Anbu et al. 2011; Hassan et al. 2016; Houbraken et al. 2010; Park et al. 2019)
Buckleyzyma	X		X		X		P6	(Buzzini et al. 2018; Mašínová et al. 2017)
Talaromyces	X		X	X			E, P2	(Palem et al. 2015; Tranchida et al. 2016; Yilmaz et al. 2016)
Chrysosporium pseudomerdarium	X		X	X			P2	(Hamayun et al. 2009; Saxena et al. 2004)
Purpureocillium		X	X				P4	(Gong et al. 2017; Nováková 2009)
Cephalotrichum microsporum	X						P2, P4, P7	(Sandoval-Denis et al. 2016)
Leptobacillium leptobactrum	X	X				X	P4, P7	(Okane et al. 2020)
Basidioascus persicus	X						E, P4	(Nasr et al. 2014)
Trichophyton ajelloi				X			P5	(Zheng et al. 2020)
Diaporthe	X		X				P5	(Gomes et al. 2013)
Sistotrema oblongisporum	X						P5	(Christ and Hauerslev 1960)
Malassezia globosa					X	X	P5	(Chandra et al. 2021; Connell and Staudigel 2013)
Acremonium furcatum			X				E, P7	(Maciá-Vicente et al. 2008)
Skeletocutis nivea			X				P7	(Rajchenberg 1983)
Stereum hirsutum	X		X				P7	(Cuevas et al. 2015)

Table S4. Habitat of fungal species retrieved in 2020

Taxonomic assignation	Habitat								References
	Associated olive tree	Soil	Decay wood	Animal dung	Associated with bats	Caves	High radiation	Castañar de Ibor location (see Fig. 1)	
Omphalotus olearius	X		X					P2	(Chliyeh et al. 2014)
Penicillium	X	X		X	X	X	X	E, P2	(Blachowicz et al. 2019; Chliyeh et al. 2014; Dimkić et al. 2020; Nováková 2009; Sanchez-Moral et al. 2021; Tugay et al. 2006)
Fusarium oxysporum	X	X				X	X	E, P2, P4	(Blachowicz et al. 2019; Chliyeh et al. 2014; Jiang et al. 2017; Jiménez-Fernández et al. 2010; Urbaniak et al. 2019)
Neocosmospora solani	X	X				X	X	E, P2, P7	(Chliyeh et al. 2014; Jiang et al. 2017; Macedo et al. 2017)
Preussia		X	X	X				P2, P4	(Gonzalez-Menendez et al. 2017)
Pseudogymnoascus pannorum		X			X	X	X	P2, P4, P7	(Chaturvedi et al. 2018; Zhdanova et al. 2000)
Candida parapsilosis		X		X	X			P2, P6, P7	(Azcón et al. 2010; Ludwig et al. 2021)
Meyerozyma guilliermondii		X		X	X			P4	(Dimkić et al. 2020; Savini et al. 2011)
Mortierella alpina		X		X	X	X		E, P4, P7	(Degawa and Gams 2004; Man et al. 2018)
Mortierella		X		X	X	X		P4, P7	(Degawa and Gams 2004; Man et al. 2018)
Penicillium citrinum		X	X	X	X	X	X	P5	(Dimkić et al. 2020; Houbraken et al. 2010; Nováková 2009; Zhdanova et al. 2000)
Buckleyzyma		X						P6	(Li et al. 2020)
Talaromyces		X	X	X	X	X		E, P2	(Tranchida et al. 2016)
Chrysosporium pseudomerdarium		X			X	X		P2	(Larcher et al. 2003; Saxena et al. 2004)
Purpureocillium		X			X	X	X	P4	(Cunha et al. 2020; Dominguez-Moñino et al. 2021; Egorova et al. 2015)
Cephalotrichum microsporum		X	X	X		X		P2, P4, P7	(Heredia et al. 2018; Sandoval-Denis et al. 2016)
Leptobacillium leptobactrum		X	X			X		P4, P7	(Chavarriaga et al. 2007; Dominguez-Moñino et al. 2021; Kujawska et al. 2021)
Basidioascus persicus		X						E, P4	(Nasr et al. 2014)
Trichophyton ajelloi		X						P5	(Zheng et al. 2020)
Diaporthe		X			X	X		P5	(Gomes et al. 2013; Sanchez-Moral et al. 2021; Wasti et al. 2020)
Sistotrema oblongisporum			X			X		P5	(Christ and Hauerslev 1960; Held et al. 2020)
Malassezia globosa						X		P5	(Connell and Staudigel 2013)
Acremonium furcatum		X						E, P7	(Maciá-Vicente et al. 2008)
Skeletocutis diluta			X					P7	(Rajchenberg 1983)
Stereum hirsutum			X					P7	(Cuevas et al. 2015)
Cystobasidium slooffiae					X	X		P7	(Holz et al. 2018)

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