

**Supplementary Table S3: All samples Fungal genus abundance**

Genus	S1_reads	S1_ratio	S2_reads	S2_ratio	S3_reads	S3_ratio	S4_reads	S4_ratio	S5_reads	S5_ratio
Knufia	9	0.06	0	0	0	0	0	0	11	0.07
Acremonium	41	0.26	74	0.47	1	0.01	47	0.3	3	0.02
Cephalotrichum	0	0	0	0	0	0	1	0.01	0	0
unclassified_Sebacinaceae	0	0	0	0	8	0.05	0	0	0	0
Vanderwaltozyma	46	0.3	125	0.8	1	0.01	43	0.28	0	0
Cyberindnra	0	0	0	0	8	0.05	0	0	0	0
Lecythophora	0	0	0	0	0	0	3	0.02	0	0
Eucasphaeria	3	0.02	18	0.12	0	0	8	0.05	1	0.01
Arthrinium	0	0	0	0	0	0	0	0	0	0
Engyodontium	0	0	13	0.08	1	0.01	0	0	24	0.15
unclassified_Pleosporales	0	0	0	0	8	0.05	5	0.03	0	0
Inonotus	5	0.03	0	0	6	0.04	0	0	62	0.4
unclassified_Eurotiomycetes	0	0	1	0.01	0	0	0	0	0	0
Flammulina	0	0	0	0	4	0.03	0	0	0	0
Leptospora	3	0.02	0	0	0	0	0	0	0	0
Ilyonectria	0	0	1	0.01	0	0	0	0	0	0
unclassified_Chytridiomycota	45	0.29	50	0.32	3	0.02	4	0.03	19	0.12
Clavulina	0	0	0	0	6	0.04	0	0	0	0
Laccaria	0	0	0	0	3	0.02	0	0	0	0
Tylospora	0	0	0	0	1	0.01	0	0	0	0
unclassified_Tricholomataceae	0	0	27	0.17	3	0.02	0	0	0	0
Ochroconis	0	0	0	0	2	0.01	0	0	0	0
Entoloma	3	0.02	0	0	0	0	0	0	0	0
unclassified_Mortierellales	1	0.01	5	0.03	1	0.01	4	0.03	0	0
unclassified_Auriculariales	0	0	0	0	0	0	6	0.04	0	0
unclassified_Corticiales	9	0.06	0	0	0	0	8	0.05	7	0.04
unclassified_Sordariales	0	0	20	0.13	4	0.03	27	0.17	70	0.45
unclassified_Eurotiales	2	0.01	9	0.06	2	0.01	0	0	24	0.15
Massarina	0	0	0	0	1	0.01	0	0	0	0
Hamigera	1	0.01	0	0	2	0.01	0	0	0	0
Tetracladium	1	0.01	0	0	0	0	1	0.01	0	0
Xeromyces	0	0	0	0	0	0	8	0.05	0	0
Phoma	0	0	37	0.24	0	0	0	0	0	0
Kazachstania	3	0.02	0	0	7	0.04	28	0.18	18	0.12
Trichoderma	73	0.47	0	0	46	0.3	2	0.01	43	0.28
Chrysosporium	6	0.04	9	0.06	10	0.06	43	0.28	25	0.16
Amaurascopsis	0	0	8	0.05	1	0.01	0	0	2	0.01
unclassified_Clavariaceae	1	0.01	0	0	0	0	0	0	0	0
Pleurotheciella	0	0	9	0.06	1	0.01	0	0	0	0
unclassified_Botryosphaeriales	11	0.07	9	0.06	10	0.06	30	0.19	23	0.15
Grammothele	0	0	0	0	0	0	0	0	4	0.03
unclassified_Pleosporaceae	1	0.01	0	0	0	0	0	0	0	0
unclassified_Trechisporales	0	0	413	2.65	0	0	0	0	0	0
Villosiclava	4	0.03	0	0	3	0.02	10	0.06	0	0
unclassified_Mucorales	0	0	0	0	0	0	3	0.02	0	0
unclassified_Pyronemataceae	10	0.06	0	0	0	0	6	0.04	8	0.05
unclassified_Sporidiobolales	2	0.01	1	0.01	0	0	0	0	0	0
Rhizophlyctis	0	0	0	0	0	0	0	0	9	0.06
Calvatia	13	0.08	23	0.15	6	0.04	7	0.04	2	0.01
Botryotinia	0	0	13	0.08	0	0	0	0	0	0
Tricharina	1	0.01	1	0.01	0	0	0	0	0	0
Tomentella	1	0.01	23	0.15	4	0.03	0	0	0	0
Penicillium	3696	23.71	3303	21.19	12217	78.38	9504	60.97	7603	48.78
unclassified_Ustilentylomata	6	0.04	0	0	0	0	0	0	0	0
Hypoxyton	16	0.1	36	0.23	13	0.08	0	0	0	0
unclassified_Pezizales	0	0	0	0	0	0	0	0	1	0.01
Sistotremastrum	3	0.02	14	0.09	0	0	0	0	0	0
Coprinopsis	0	0	3	0.02	4	0.03	0	0	0	0
Paraphaeosphaeria	0	0	0	0	0	0	0	0	21	0.13
unclassified_Pezizaceae	1	0.01	94	0.6	11	0.07	9	0.06	2	0.01
Arthrospis	2	0.01	0	0	7	0.04	33	0.21	0	0
Saccharomycopsis	1	0.01	0	0	4	0.03	0	0	0	0
Ramicandelaber	1	0.01	12	0.08	4	0.03	50	0.32	8	0.05
Lichtheimia	1	0.01	0	0	3	0.02	0	0	0	0
Rhinocladella	15	0.1	17	0.11	0	0	7	0.04	30	0.19
unclassified_Agaricomycetes	7	0.04	33	0.21	3	0.02	0	0	23	0.15
Capronia	3	0.02	0	0	0	0	6	0.04	0	0
Aspergillus	10	0.06	69	0.44	25	0.16	40	0.26	73	0.47

unclassified_Pseudeurotiacea	1	0.01	1	0.01	0	0	0	0	0	0
Coprinus	1	0.01	0	0	0	0	0	0	0	0
Sclerostagonospora	6	0.04	8	0.05	3	0.02	8	0.05	80	0.51
Inocybe	0	0	0	0	6	0.04	0	0	0	0
Pluteus	670	4.3	0	0	5	0.03	5	0.03	0	0
unclassified_Cortinariaceae	3	0.02	0	0	12	0.08	0	0	11	0.07
unclassified_Montagnulaceae	0	0	0	0	0	0	0	0	2	0.01
Geastrum	6	0.04	0	0	2	0.01	0	0	0	0
unclassified_Thelephoraceae	0	0	5	0.03	0	0	0	0	0	0
unclassified_Lasiosphaeriaceae	0	0	0	0	0	0	0	0	0	0
unclassified_Sordariomycetes	67	0.43	152	0.98	6	0.04	7	0.04	13	0.08
Schizothecium	6	0.04	157	1.01	0	0	6	0.04	0	0
unclassified_Ceratobasidiaceae	57	0.37	97	0.62	4	0.03	29	0.19	10	0.06
unclassified_Psathyrellaceae	18	0.12	0	0	6	0.04	9	0.06	0	0
Podospora	489	3.14	0	0	5	0.03	21	0.13	0	0
Candida	10	0.06	10	0.06	2	0.01	0	0	0	0
Exophiala	12	0.08	13	0.08	1	0.01	0	0	22	0.14
Hypocrea	30	0.19	22	0.14	0	0	0	0	7	0.04
Helicosporium	1	0.01	14	0.09	0	0	0	0	0	0
Rhizophydium	31	0.2	0	0	0	0	0	0	0	0
unclassified_Sebacinales	40	0.26	52	0.33	0	0	12	0.08	7	0.04
Scedosporium	0	0	1	0.01	0	0	0	0	0	0
Betamyces	0	0	3	0.02	2	0.01	0	0	0	0
unclassified_Bionectriaceae	3	0.02	0	0	1	0.01	0	0	0	0
Mucor	0	0	0	0	0	0	1	0.01	0	0
unclassified_Mortierellaceae	11	0.07	43	0.28	0	0	7	0.04	2	0.01
Arthrobotrys	21	0.13	0	0	0	0	3	0.02	0	0
Ganoderma	4	0.03	20	0.13	2	0.01	3	0.02	42	0.27
unclassified_Chaetothyriales	0	0	8	0.05	0	0	0	0	0	0
Fusarium	0	0	0	0	0	0	0	0	8	0.05
Vascellum	1	0.01	9	0.06	0	0	13	0.08	0	0
Debaryomyces	0	0	0	0	4	0.03	40	0.26	23	0.15
Trametes	0	0	0	0	1	0.01	0	0	0	0
Diaporthe	2	0.01	0	0	0	0	0	0	0	0
Rhodotorula	7	0.04	0	0	0	0	9	0.06	21	0.13
unclassified	4249	27.26	1718	11.02	651	4.18	3588	23.02	3765	24.15
Guehomyces	0	0	0	0	0	0	1	0.01	0	0
Hypomyces	2	0.01	0	0	0	0	0	0	0	0
Rhizopycnis	0	0	0	0	0	0	1	0.01	0	0
Pholiotina	5	0.03	7	0.04	2	0.01	4	0.03	23	0.15
Arachnion	2	0.01	0	0	0	0	0	0	0	0
unclassified_Fungi	100	0.64	3999	25.66	35	0.22	70	0.45	539	3.46
Minimedusa	913	5.86	0	0	0	0	0	0	0	0
Pseudallescheria	34	0.22	32	0.21	10	0.06	0	0	177	1.14
Cryptococcus	0	0	20	0.13	0	0	14	0.09	0	0
unclassified_Clavicipitaceae	46	0.3	10	0.06	5	0.03	0	0	19	0.12
Cylindrocarpon	20	0.13	19	0.12	20	0.13	74	0.47	0	0
Mortierella	4367	28.02	4232	27.15	2278	14.61	1546	9.92	1671	10.72
Aureobasidium	0	0	0	0	0	0	0	0	0	0
unclassified_Trichocomaceae	0	0	0	0	0	0	7	0.04	0	0
Scolecobasidium	3	0.02	4	0.03	2	0.01	0	0	16	0.1
Paecilomyces	7	0.04	29	0.19	2	0.01	0	0	0	0
Lalaria	0	0	0	0	0	0	6	0.04	0	0
Minutisphaera	3	0.02	0	0	0	0	0	0	26	0.17
Scutellinia	1	0.01	0	0	0	0	3	0.02	0	0
Cordyceps	0	0	0	0	0	0	0	0	5	0.03
Tritirachium	0	0	2	0.01	0	0	0	0	4	0.03
unclassified_Agaricales	10	0.06	0	0	0	0	0	0	17	0.11
Ascobolus	0	0	0	0	0	0	0	0	25	0.16
unclassified_Xylariales	1	0.01	0	0	0	0	0	0	0	0
Cystofilobasidium	0	0	20	0.13	0	0	1	0.01	1	0.01
Didymosphaeria	198	1.27	185	1.19	53	0.34	138	0.89	910	5.84
unclassified_Ascomycota	40	0.26	145	0.93	21	0.13	0	0	7	0.04
Sebacina	0	0	0	0	0	0	0	0	0	0
unclassified_Dothideomycete	10	0.06	10	0.06	4	0.03	0	0	4	0.03
Volutella	9	0.06	0	0	0	0	13	0.08	10	0.06
Strelitziana	0	0	0	0	0	0	0	0	1	0.01
unclassified_Russulaceae	3	0.02	20	0.13	0	0	0	0	0	0
Metarhizium	10	0.06	50	0.32	0	0	4	0.03	3	0.02