Table S3. Details of the fungi species and isolates generated by our study and included in the phylogenetic analyses. The table presents the identified species, number of the isolates, respective accession number, host, and origin. The isolates were sequenced, and the identification was performed by nucleotide blast (nblast) in three online databases: NCBI GenBankNucleotid Blast (https://blast.ncbi.nlm.nih.gov, 14 January 2024), Mycobank (https://www.mycobank.org/, 14 January 2024), and BOLD Systems (https://boldsystems.org, 17 February 2024).

Species	Isolate	Accession Number	Host	Variety [vernacular name]	Origin	NCBI	E-value	Mycobank	Prob.	BOLD Systems	E-value
Aspergillus											
Aspergillus sp. P.Micheli, 1729	GBC15	PP786374	*Oryza glaberrima*	*Batumpaiabo*	Cacheu, Guinea Bissau	KM613138.1 - *Aspergillus aculeatus*	0E+00	MIRRI0056217 - *Aspergillus japonicus*	0E+00	MGEN363-14 - *Aspergillus japonicus*	0E+00
	GBC16	PP786375	*Oryza sativa*	*Iacai iadi*		OR029503.1 - *Aspergillus brunneoviolaceus*	0E+00	MIRRI0056217 - *Aspergillus japonicus*	0E+00	MGEN363-14 - *Aspergillus japonicus*	0E+00
	GBC17	PP786376				KM613138.1 - *Aspergillus aculeatus*	0E+00	CBS 132773 - *Aspergillus assiutensis*	0E+00	MGEN363-14 - *Aspergillus japonicus*	0E+00
	GBC22	PP786381		*Iacai tomor*		MK748310.1 - *Aspergillus aculeatinus*	2E-132	OL587586 - *Aspergillus trinidadensis*	1E-134	GBEUR4165-13 - *Aspergillus aculeatus*	3E-142
	GBT9	PP786328		*Yaca sau/xau*	Tombali, Guinea Bissau	NR_156297.1 - *Aspergillus iranicus*	0E+00	KP987077 - *Aspergillus iranicus*	0E+00	GBEUR3249-13 - *Aspergillus neoniveus*	0E+00
	GBT10	PP786329				AB248972.1 - *Aspergillus omanensis*	0E+00	SH0942049.09FU - *Aspergillus terricola*	0E+00	MGEN297-14 - *Aspergillus fruticulosus*	0E+00
	GBT12	PP786330				MN735925.1 - *Aspergillus allahabadii*	0E+00	SH1082996.09FU - *Aspergillus allahabadii*	0E+00	GBEUR1241-13 - *Aspergillus carneus*	0E+00
	GBT17	PP786335		*Var 29 (Ianda Arruz project)*		MW299155.1 - *Aspergillus* sp.	1E-67	MUM 03.02 - ITS - *Aspergillus violaceofuscus*	3E-51	MGEN363-14 - *Aspergillus japonicus*	4E-86
	GBT24	PP786341		*Yaca branco*		MK748310.1 - *Aspergillus aculeatinus*	4E-164	MIRRI0056914 - *Aspergillus indologenus*	1E-145	GBEUR4165-13 - *Aspergillus aculeatus*	9E-160
	GBO12	PP786356		*DEPA*	Oio, Guinea Bissau	MN735925.1 - *Aspergillus allahabadii*	0E+00	CBS 164.63 - *Aspergillus allahabadii*	0E+00	GBEUR1241-13 - *Aspergillus carneus*	0E+00
	GBO16	PP786360		*Caublak/Caublac*		MT640286.1 - *Aspergillus assiutensis*	4E-174	OM530251 - *Aspergillus brunneoviolaceus*	3E-173	MGEN363-14 - *Aspergillus japonicus*	4E-167
Aspergillus aculeatus Iizuka	BGC4	PP786365	*Oryza sativa*	*Tomor/ Etomoray*	Cacheu, Guinea Bissau	KM613138.1 - *Aspergillus aculeatus*	0E+00	SH1305902.09FU - *Aspergillus aculeatus*	0E+00	MGEN363-14 - *Aspergillus japonicus*	0E+00
Aspergillus flavus Link	GBC19	PP786378	*Oryza glaberrima*	*Balenabu*	Cacheu, Guinea Bissau	CP051025.1 - *Aspergillus flavus*	0E+00	UOA/HCPF 8934 - *Aspergillus flavus*	0E+00	MGEN903-15 - *Aspergillus flavus*	0E+00
Aspergillus niger Tiegh.	GBC18	PP786377	*Oryza glaberrima*	*Balenabu*	Cacheu, Guinea Bissau	OR105499.1 - *Aspergillus niger*	0E+00	UOA/HCPF 4289 - *Aspergillus niger*	0E+00	ITSIM3049-15 - *Aspergillus niger*	0E+00
	GBC21	PP786380	*Oryza sativa*	*Iacai tomor*		FJ798688.2 - *Aspergillus* sp.	0E+00	IHEM 22432 - *Aspergillus niger*	0E+00	ITSIM256-15 - *Aspergillus niger*	0E+00
	BGT26	PP786343		*Yaca branco*	Tombali, Guinea Bissau	LC105682.1 - *Aspergillus niger*	0E+00	UOA/HCPF 4289 - *Aspergillus niger*	0E+00	ITSIM256-15 - *Aspergillus niger*	0E+00
Aspergillus tubingensis Mosseray	GBO15	PP786359	*Oryza sativa*	*Caublak/Caublac*	Oio, Guinea Bissau	OR117338.1 - *Aspergillus tubingensis*	0E+00	UOA/HCPF 8806 - *Aspergillus tubingensis*	0E+00	ITSIM312-15 - *Aspergillus tubingensis*	0E+00

Species	Isolate	Accession Number	Host	Variety [vernacular name]	Origin	NCBI	E-value	Mycobank	Prob.	BOLD Systems	E-value
Bipolaris											
Bipolaris oryzae (Breda de Haan) Shoemaker	GBC12	PP786372	*Oryza sativa*	*Marina*	Cacheu, Guinea Bissau	MT605002.1 - *Bipolaris oryzae*	0E+00	CBS 119.24 - *Bipolaris oryzae*	0E+00	GBPLE2600-13 - *Bipolaris oryzae*	0E+00
	GBO6	PP786350		*DEPA*	Oio, Guinea Bissau	MT605002.1 - *Bipolaris oryzae*	0E+00	CBS 119.24 - *Bipolaris oryzae*	0E+00	GBPLE2600-13 - *Bipolaris oryzae*	0E+00
	GBT7	PP786326		*Yaca branco*	Tombali, Guinea Bissau	OR540747.1 - *Bipolaris oryzae*	0E+00	CBS 199.54 - *Bipolaris oryzae*	0E+00	GBPLE620-13 - *Bipolaris oryzae*	0E+00
	GBT15	PP786333		*Var 29 (Ianda Arruz project)*		MH412649.1 - *Bipolaris oryzae*	0E+00	MW598269 - *Bipolaris oryzae*	0E+00	GBPLE3065-13 - *Bipolaris oryzae*	0E+00
	GBT22	PP786339		*Mamusso*		KU499535.1 - *Bipolaris oryzae*	0E+00	CBS 199.54_ex31561_41028_ITS - *Bipolaris oryzae*	0E+00	GBPLE3065-13 - *Bipolaris oryzae*	0E+00
	GBT23	PP786340				OQ876824.1 - *Bipolaris oryzae*	0E+00	MIRRI0045680 - *Bipolaris oryzae*	0E+00	GBPLE620-13 - *Bipolaris oryzae*	0E+00
	GBT25	PP786342		*Yaca branco*		OQ876824.1 - *Bipolaris oryzae*	0E+00	MIRRI0045680 - *Bipolaris oryzae*	0E+00	GBPLE620-13 - *Bipolaris oryzae*	0E+00
Chaetomium											
Chaetomium sp. Kunze, 1817	GBC14	PP786373	*Oryza glaberrima*	*Batumpaiabo*	Cacheu, Guinea Bissau	MH627288.1 - *Chaetomium* sp.	0E+00	SH0881420.09FU - *Chaetomium* sp.	0E+00	GBSO15322-15 - Chaetomiaceae	0E+00
	GBO5	PP786349	*Oryza sativa*	*DEPA*	Oio, Guinea Bissau	NR_172742.1 - *Achaetomium aegilopis*	0E+00	CBS 238.76 - *Collariella virescens*	0E+00	GBSO964-13 - Chaetomiaceae	0E+00
	GBO18	PP786361		*Caublak/Caublac*		OR841553.1 - *Chaetomium luteum*	0E+00	KY379646 - *Chaetomium* sp.	0E+00	GBSO964-13 - Chaetomiaceae	0E+00
	GBT16	PP786334		*Var 29 (Ianda Arruz project)*	Tombali, Guinea Bissau	KU612393.1 - *Chaetomium* sp.	0E+00	KU612393 - *Achaetomium* sp.	0E+00	GBSO15322-15 - Chaetomiaceae	0E+00
	GBT18	PP786336				KU612393.1 - *Chaetomium* sp.	0E+00	KU612393 - *Achaetomium* sp.	0E+00	GBSO15322-15 - Chaetomiaceae	0E+00
Chaetomium strumarium (J.N.Rai, J.P.Tewari & Mukerji) P.F.Cannon	GBT3	PP786322	*Oryza sativa*	*Yaca sau/xau*	Tombali, Guinea Bissau	NR_144811.1 - *Chaetomium strumarium*	0E+00	AY681204 - *Chaetomium strumarium*	0E+00	GBSO964-13 - Chaetomiaceae	0E+00
Cladosporium											
Cladosporium sp. Link, 1816	GBC2	PP786363	*Oryza sativa*	*Tomor/ Etomoray*	Cacheu, Guinea Bissau	MN644691.1 - *Cladosporium delicatulum*	0E+00	SH1309305.09FU - *Cladosporium* sp.	0E+00	MGEN319-14 - *Cladosporium* sp.	0E+00
	GBC7	PP786368	*Oryza glaberrima*	*Bakongabu*		MN644691.1 - *Cladosporium delicatulum*	0E+00	CBS 140690 - *Cladosporium alboflavescens*	0E+00	MGEN835-15 - *Cladosporium cladosporioides*	0E+00
	GBT13	PP786331	*Oryza sativa*	*Yaca sau/xau*	Tombali, Guinea Bissau	MF380508.1 - *Cladosporium* sp.	0E+00	SH1309305.09FU UDB03081615 - *Cladosporium* sp.	2E-163	MGEN835-15 - *Cladosporium cladosporioides*	0E+00

Species	Isolate	Accession Number	Host	Variety [vernacular name]	Origin	NCBI	E-value	Mycobank	Prob.	BOLD Systems	E-value
Curvularia											
Curvularia sp. Boedijn	GBO4	PP786348	*Oryza sativa*	*DEPA*	Oio, Guinea Bissau	MK351446.1 - *Curvularia* sp.	0E+00	CNRMA19.416 - *Curvularia eragrostidis*	0E+00	GBPLE3211-13 - *Curvularia clavata*	0E+00
	GBO14	PP786358				MK351446.1 - *Curvularia* sp.	4E-100	KU232930 - *Curvularia eragrostidis*	2E-93	GBPLE3211-13 - *Curvularia clavata*	6E-117
Curvularia eragrostidis (Henn.) J.A.Mey.	GBC3	PP786364	*Oryza sativa*	*Tomor/ Etomoray*	Cacheu, Guinea Bissau	MK886805.1 - *Curvularia eragrostidis*	0E+00	CNRMA19.416 - *Curvularia eragrostidis*	0E+00	GBPLE3211-13 - *Curvularia clavata*	0E+00
Curvularia lunata (Wakker) Boedijn	GBO2	PP786346	*Oryza sativa*	*Sampena/ Quisampena*	Oio, Guinea Bissau	MK623265 - *Curvularia lunata*	0E+00	CNRMA20.21 - *Curvularia lunata*	0E+00	private - *Cochliobolus geniculatus*	2E-30
	GBO10	PP786354		*Yaca*		MN555423.1 - *Curvularia warraberensis*	0E+00	CNRMA13.415 - *Curvularia lunata*	0E+00	MGEN911-16 - *Curvularia lunata*	0E+00
	GBT2	PP786321		*Caublak/Caublac*	Tombali, Guinea Bissau	MT586110.1 - *Curvularia lunata*	0E+00	SH1224132.09FU - *Curvularia lunata*	0E+00	ITSIM1049-15 - *Curvularia lunata*	0E+00
	GBC6	PP786367		*Tomor/ Etomoray*	Cacheu, Guinea Bissau	MT586110.1 - *Curvularia lunata*	0E+00	CNRMA20.21 - *Curvularia lunata*	0E+00	ITSIM1049-15 - *Curvularia lunata*	0E+00
	GBC20	PP786379	*Oryza glaberrima*	*Batumpaiabo*	Cacheu, Guinea Bissau	MK370590.1 - *Curvularia* sp.	0E+00	IP 1417.82 - *Curvularia lunata*	0E+00	MGEN911-16 - *Curvularia lunata*	0E+00
Epicoccum											
Epicoccum sorghinum (Sacc.) Aveskamp, Gruyter & Verkley	GBO13	PP786357	*Oryza sativa*	*DEPA*	Oio, Guinea Bissau	MW081248.1 - *Epicoccum sorghinum*	0E+00	MW081248 - *Epicoccum sorghinum*	0E+00	GBPLE3338-13 - *Phoma* sp.	0E+00
Exserohilum											
Exserohilum sp. / *Curvularia* sp. K.J.Leonard & Suggs / Boedijn	GBC8	PP786369	*Oryza glaberrima*	*Bakongabu*	Cacheu, Guinea Bissau	MN599596.1 - *Exserohilum rostratum*	3E-160	CNRMA20.21 - *Curvularia lunata*	1,3E-89	GBPLE3414-13 - *Exserohilum rostratum*	9E-160
Fusarium											
Fusarium sp. Link, 1809	GBT5	PP786324	*Oryza sativa*	*Yaca sau/xau*	Tombali, Guinea Bissau	MT529374.1 - *Nectriaceae* sp.	0E+00	CBS 509.63 - *Cylindrocarpon lichenicola*	0E+00	ITSIM1655-15 - *Fusarium lichenicola*	0E+00
	GBT6	PP786325				MH766400.1 - *Fusarium equiseti*	0E+00	LC13704 - *Fusarium humuli*	0E+00	GBHYP6550-13 - *Fusarium* sp.	0E+00
Lichtheimia											
Lichtheimia hyalospora (Saito) Kerst.Hoffm., Walther & K.Voigt	GBT4	PP786323	*Oryza sativa*	*Yaca sau/xau*	Tombali, Guinea Bissau	MN886595.1 - *Lichtheimia hyalospora*	0E+00	SH1064545.09FU - *Lichtheimia hyalospora*	0E+00	ITSIM3191-15 - *Lichtheimia hyalospora*	0E+00
	GBT8	PP786327		*Yaca branco*		GQ342895.1 - *Lichtheimia hyalospora*	0E+00	GQ342895 - *Lichtheimia hyalospora*	0E+00	ITSIM3191-15 - *Lichtheimia hyalospora*	0E+00

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Orbilia											
Orbilia foliicola Baral & E.Weber	GBT1	PP786320	*Oryza sativa*	*Caublak/Caublac*	Tombali, Guinea Bissau	MT176495.1 - *Orbilia foliicola*	0E+00	OK300083 - *Orbilia foliicola*	0E+00	private - *Nodulisporium* sp.	0E+00
	GBT21	PP786338		*Mamusso*		MT176495.1 - *Orbilia foliicola*	0E+00	OK300086 - *Orbilia foliicola*	0E+00	private - *Nodulisporium* sp.	0E+00
	GBT27	PP786344		*Yaca branco*		MT176495.1 - *Orbilia foliicola*	0E+00	MZ277276 - *Orbilia foliicola*	0E+00	private - *Nodulisporium* sp.	0E+00
Ovatospora											
Ovatospora brasiliensis (Bat. & Pontual) X.Wei Wang & Samson	GBO1	PP786345	*Oryza sativa*	*Sampena/ Quisampena*	Oio, Guinea Bissau	MN820658 - *Chaetomium* sp.	0E+00	MW242966 - *Ovatospora brasiliensis*	0E+00	MGEN649-15 - *Ovatospora brasiliensis*	0E+00
Penicillium											
Penicillium sp. Link, 1809	GBC10	PP786371	*Oryza sativa*	*Marina*	Cacheu, Guinea Bissau	MT548672.1 - *Penicillium* sp.	0E+00	SH1227908.09FU - *Penicillium* sp.	0E+00	ITSIM2139-15 - *Penicillium brevicompactum*	0E+00
Penicillium oxalicum Currie & Thom	GBC1	PP786362	*Oryza sativa*	*Tomor/ Etomoray*	Cacheu, Guinea Bissau	MT597864.1 - *Penicillium oxalicum*	0E+00	FMR 14261 - *Penicillium oxalicum*	0E+00	MGEN933-16 - *Penicillium oxalicum*	0E+00
Pseudopithomyces											
Pseudopithomyces sp. Ariyaw. & K.D.Hyde	GBO11	PP786355	*Oryza sativa*	*Caublak/Caublac*	Oio, Guinea Bissau	KY458473.1 - *Pseudopithomyces chartarum*	0E+00	SH1291808.09FU - *Pithomyces* sp.	0E+00	GBPLE4503-15 - Montagnulaceae	0E+00
Pseudothielavia											
Pseudothielavia terricola (J.C.Gilman & E.V.Abbott) X.Wei Wang & Houbraken	GBC5	PP786366	*Oryza sativa*	*Tomor/ Etomoray*	Cacheu, Guinea Bissau	OP703546.1 - *Pseudothielavia terricola*	0E+00	CBS 603.97 - *Pseudothielavia arxii*	0E+00	GBSO8224-13 - *Thielavia* sp.	0E+00
	GBO8	PP786352		*Yaca*	Oio, Guinea Bissau	MK926834.1 - *Pseudothielavia terricola*	0E+00	CBS 538.50 - *Pseudothielavia terricola*	0E+00	GBSO8224-13 - *Thielavia* sp.	0E+00
Rhizopus											
Rhizopus microsporus Tiegh.	GBO7	PP786351	*Oryza sativa*	*Yaca*	Oio, Guinea Bissau	MN204624.1 - *Rhizopus microsporus*	0E+00	WM 04.478 - *Rhizopus microsporus*	0E+00	GBMUC060-13 - *Rhizopus microsporus*	0E+00
	GBT14	PP786332		*Var 29 (Ianda Arruz project)*	Tombali, Guinea Bissau	MT279280.1 - *Rhizopus microsporus*	0E+00	MIRRI0041055 - *Rhizopus microsporus*	0E+00	ITSIM2293-15 - *Rhizopus microsporus*	0E+00
Rhopalostroma											
Rhopalostroma indicum D.Hawksw. & Muthappa	GBC9	PP786370	*Oryza sativa*	*Marina*	Cacheu, Guinea Bissau	MH862909.1 - *Rhopalostroma indicum*	0E+00	CBS 113035 - *Rhopalostroma indicum*	0E+00	MGEN858-15 - *Daldinia eschscholtzii*	0E+00
Talaromyces											
Talaromyces sp. C.R.Benj., 1955	GBO9	PP786353	*Oryza sativa*	*Yaca*	Oio, Guinea Bissau	MN452795.1 - *Fusarium solani*	0E+00	SH1288445.09FU - *Talaromyces aculeatus*	0E+00	private - *Talaromyces* sp.	0E+00

Species	Isolate	Accession Number	Host	Variety [vernacular name]	Origin	NCBI	E-value	Mycobank	Prob.	BOLD Systems	E-value
Trichoderma											
Trichoderma sp. Persoon ex Gray, 1801	GBO3	PP786347	*Oryza sativa*	*DEPA*	Oio, Guinea Bissau	KU504283.1 - *Trichoderma* sp.	0E+00	CBS 416.52 - *Trichoderma inhamatum*	0E+00	MGEN860-15 - *Trichoderma harzianum*	0E+00