

Supplementary Materials

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Supplementary Table S1. Sampling sites and dates of *Coolia* strains isolated from the Gulf of Gabès, Tunisia

Species	Strain code	Localities	Isolation date	Latitude	Longitude
<i>C. malayensis</i>	Com.1	Cotusal Channel	Sep 3, 2008	33°22'48" N	11°08'24" E
<i>C. monotis</i>	Com.2	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.3	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.4	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.5	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.6	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.7	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.8	Cotusal Channel	Jan 2, 2009	33°22'48" N	11°08'24" E
	Com.10	Cotusal Channel	Feb 19, 2009	33°22'48" N	11°08'24" E
	Com.11	Cotusal Channel	Feb 19, 2009	33°22'48" N	11°08'24" E
	Com.12	Cercina	Mar 30, 2009	34°41'46" N	11°07'24" E
	Com.13	Bouhrara lagoon	May 3, 2019	33°39'10" N	10°43'58" E
	Com.14	Bouhrara lagoon	May 3, 2019	33°39'10" N	10°43'58" E
	Com.15	Bouhrara lagoon	May 3, 2019	33°39'10" N	10°43'58" E
	Com.16	Bouhrara lagoon	May 3, 2019	33°39'10" N	10°43'58" E

Supplementary Table S2. Sampling sites and accession numbers of ITS-5.8S rDNA region and LSU rDNA D1/D3 of strains investigated in this study

Species	Strains	Localities	GenBank accession No.		
			ITS-5.8S rDNA	LSU rDNA D1/D3	
<i>C. malayensis</i>	L31	New Zealand, Kermadec Islands	KR605287	KR605318	
	CAWD98	New Zealand, Glenhaven	KR605284	KJ422853	
	CAWD154	New Zealand, Rangaunu Harbour	KR605285	KJ422855	
	KI-2ca	New Zealand, Kermadec Islands		KY069057	
	NL12	New Zealand, Rawhiti Point	KR605288		
	CAWD151	Cook Islands, Rarotonga	KR605290		
	CmLd02	Malaysia, Lundu, Sarawak	KR605267	KR605308	
	CmTT01	Malaysia, Talang-Talang Island	KR605271		
	CmPD22	Malaysia, Port Dickson	KR605252	KR605306	
	coolia2	Belize, Carrie Bow Cay	KR605282		
	CoSg01	Singapore	KR605273		
	Dn114EHU	Puerto Rico	KF896874	KF896840	
	C. mal 52	Brazil		KU746832	
	Isolate 74	Brazil		KU746833	
	UNR-02	Brazil, Rio de Janeiro	MK109022	MK070400	
	Clone 1	Japan, Okinawa	KJ933432		
	wzd16	China	KR605278	KR605316	
	UTSMER17A5	Australia		MH319014	
	Cm1303-1	USA, St. Croix	KP172273	KP172269	
	Cm0607-1	USA, Offshore N.C.	KP172275	KP172278	
	LM-034	Brazil, São Paulo	MT295341	MT295352	
	LM-036	Brazil, Rio de Janeiro	MT295342	MT295359	
	LM-140	Brazil, Rio Grande do Norte	MT295350	MT295365	
	CE3	China, Hainan Island	MF805770	KR229994	
	Com.1	Tunisia, Gulf of Gabès, Cotusal Channel	KJ781427	MT024005	
	<i>C. monotis</i>	IEO-CM7C	Spain, Almeria	AJ532583	
		Dn202EHU	Spain, Suances	KF896873	KF896844
		Dn176EHU	Spain, Corune		KF896848
		Dn159EHU	Spain, Santona	KF896866	KF896846
		CM7C	Spain, Catalan Sea		AM902745
		CNR-CMB2	Italy, Ganzirri	AJ491336	
		CBA1	Italy, Genova, N Tyrrhenian Sea		AM902742
		CNR-CMA4	Italy, Ionian Sea	AJ279032	
		SZN 43	Italy, Gulf of Naples	AJ308524	
		VGO783	Greece, Saronikos Gulf	FN256433	AM902747
		Dn71EHU	France, Hossegor	KF896863	KF896845
		Dn184EHU	France, Biarritz		KF896854
		Dn165EHU	Portugal, Peniche	KF896867	
		RIKZ-4	Netherlands		AM902749
		CCMP2582	USA, Rhodes Island		KP172277
		CMBZT14	Tunisia, Bizerte Bay		KX845010
		Com.2	Tunisia, Gulf of Gabès, Cotusal Channel	KJ781411	MT024006
		Com.3	Tunisia, Gulf of Gabès, Cotusal Channel	KX026857	MT024007
		Com.4	Tunisia, Gulf of Gabès, Cotusal Channel	KX026858	MT024008
		Com.5	Tunisia, Gulf of Gabès, Cotusal Channel	KX026859	KJ781414
		Com.6	Tunisia, Gulf of Gabès, Cotusal Channel	KX026860	MT024009
		Com.7	Tunisia, Gulf of Gabès, Cotusal Channel	KX026861	MT024010
Com.8		Tunisia, Gulf of Gabès, Cotusal Channel	KX026862	MT024011	
Com.10		Tunisia, Gulf of Gabès, Cotusal Channel	KJ781413	KJ781412	
Com.11		Tunisia, Gulf of Gabès, Cotusal Channel		MT024012	
Com.12		Tunisia, Gulf of Gabès, Kerkennah Islands		MT024013	
Com.13		Tunisia, Gulf of Gabès, Bouhrara Lagoon	MT024002	MT024014	
Com.14		Tunisia, Gulf of Gabès, Bouhrara Lagoon		MT024015	
Com.15		Tunisia, Gulf of Gabès, Bouhrara Lagoon	MT024003	MT024016	
Com.16		Tunisia, Gulf of Gabès, Bouhrara Lagoon	MT024004	MT024017	
<i>C. tropicalis</i>		XS554	China, Paracel Islands	MN934345	MN934341
		SKLMP_S003	Hong Kong, Tsim Chau		KX589145
		DPR_3_Coolia	Puerto Rico, Mayaguez	KR605301	
	UNR-28	Brazil, Trindade Island	MK109021		
	Coolia7	Belize, Carrie Bow Cay	KR605297		
	UTSHI2D1	Australia		MH319016	
	DS5F4	China, Hainan Island	MF805767		
	LM-141	Brazil, Rio Grande do Norte	MT295351		
	<i>C. canariensis</i>	Dn137EHU	Spain, Zierbana	KF956847	
		VGO786	Spain, Canary Islands		AM902737
		SKLMP_W066	Hong Kong, Bluff Island		KX589158
D1C2		China, Hainan Island	MF805768	KR229996	
UNR-25		Brazil, Trindade Island	MK109023	MK070401	
<i>C. santacroce</i>	Cs1303-1	USA, St. Croix	KP172272	KP172271	
	Cos 1503-2	Bahamas, Nassau		KT288058	
	LM-123	Brazil, Abrolhos	MT295348	MT295357	
<i>C. palmyrensis</i>	UTSHI3C5	Australia		MH319015	
	SKLMP_S018	Hong Kong, Siu Long Ke		KX589147	
	Cp1208-1	Palmyra Atoll	KP172274		
<i>C. guanchica</i>	LM-112	Brazil, Bahia (Abrolhos)	MT295347		
	TnN	Canary Islands, San Andrés	MK945759	KU514008	
	TnW	Canary Islands, Playa de las Cuevitas	MK945760	KU514007	
<i>O. siamensis</i>	CSIC-D	Spain, Catalan Sea, La Fosca		FN256431	
<i>O. ovata</i>	OvPD07	Malaysia	AF218456		
	Oso.3	Tunisia, Gulf of Gabès, Bouhrara Lagoon		KJ781420	
	Oso.2	Tunisia, Gulf of Gabès, Bouhrara Lagoon	KJ781416		

Coolia strains obtained from this study are in bold.

ITS, internal transcribed spacer; LSU, large subunit.