

*The following supplement accompanies the article*

## **Intracellular eukaryotic pathogens in brown macroalgae in the Eastern Mediterranean, including LSU rRNA data for the oomycete *Eurychasma dicksonii***

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**Supplement.** Supplementary tables

Table S1. *Eurychasma dicksonii*. Large subunit (LSU) ribosomal RNA gene sequence information of strains of various geographic origin. The isolate from Lesvos (Greece) is highlighted in **bold**

Sample ID	Strain details	Geographic origin and year of isolation	Isolator	LSU gene sequence length (bp)
Eur 05	Monoeukaryotic live culture CCAP 4018/1	Le Caro, Brittany (France), 2005	D.G. Müller	933
Eur 96	Monoeukaryotic live culture CCAP 4018/2	Bressay, Shetland (UK), 1996	D.G. Müller	1083
Eur 06-29-2	Monoeukaryotic live culture	Dunstaffnage Bay, Oban (UK), 2006	C.M.M. Gachon	1085
Eur 06-29-4	Monoeukaryotic live culture	Dunstaffnage Bay, Oban (UK), 2006	C.M.M. Gachon	1085
Eur 06-29-5	Monoeukaryotic live culture	Dunstaffnage Bay, Oban (UK), 2006	C.M.M. Gachon	1084
Eur 06-29-7	Monoeukaryotic live culture CCAP 4018/3	Dunstaffnage Bay, Oban (UK), 2006	C.M.M. Gachon	1087
Eur 07-1	Monoeukaryotic live culture	Dunstaffnage Bay, Oban (UK), 2007	M. Strittmatter	649
Eur 07-2	Monoeukaryotic live culture	Dunstaffnage Bay, Oban (UK), 2007	M. Strittmatter	1083
<b>Eur 34-4</b>	Field-collected sample	Skala Neon Kydonion, Lesvos (Greece), 2009	M. Strittmatter	1087
Eur FI-S63	Monoeukaryotic live culture	Falkland Islands, 2007	D.G. Müller	1087
Eur US-385B	Monoeukaryotic live culture	Ushuaia (Argentina), 2007	D.G. Müller	1085

Table S2. Species and sequence information of various oomycetes, the hyphochytrid *Hyphochytrium catenoides* and *Developayella elegans* used for phylogenetic analysis of large subunit ribosomal RNA (LSU rRNA) gene sequence data and the combined analysis of LSU rRNA, small subunit (SSU) rRNA and *cox2* gene sequences. Taxa defined as outgroups are underlined

Species	GenBank accession no. (source)		
	LSU	SSU	<i>cox2</i>
<i>Achlya bisexualis</i>	AF218187 (Leclerc et al. 2000)		
<i>Albugo candida</i>	AF235938 (Petersen & Rosendahl 2000)	JF504671 (Lara & Belbahri 2011)	AY927047 (Choi et al. 2006)
<i>Aphanomyces astaci</i>	AF235940 (Petersen & Rosendahl 2000)		
<i>Aphanomyces laevis</i>	HQ665242 (Robideau et al. 2011)	HQ343196 (unpublished)	HQ680584 (unpublished)
<i>Aphanomyces piscicida</i>	AF235941 (Petersen & Rosendahl 2000)		
<i>Atkinsiella dubia</i>	AB285221 (Muraosa et al. 2009)	AB284575 (unpublished)	AF290312 (Cook et al. 2001)
<i>Basidiophora entospora</i>	EU287694 (unpublished)		
<i>Bremia lactucae</i>	EF553478 (Voglmayr & Constantinescu 2008)		
<u><i>Developayella elegans</i></u> CCAP1917/1	FJ030882 (Riisberg et al. 2009)		
<i>Eurychasma dicksonii</i> strain 05	FR696317 (present study)	AB368176 (Sekimoto et al. 2008)	AB368177 (Sekimoto et al. 2008)
<i>Eurychasma dicksonii</i> strain 96	FR696318 (present study)	AY032607 (Küpper et al. 2006)	AB368178 (Sekimoto et al. 2008)
<i>Eurychasma dicksonii</i> strain 06-29-2	FR696312 (present study)		
<i>Eurychasma dicksonii</i> strain 06-29-4	FR696313 (present study)		
<i>Eurychasma dicksonii</i> strain 06-29-5	FR696314 (present study)		
<i>Eurychasma dicksonii</i> strain 06-29-7	FR696311 (present study)		
<i>Eurychasma dicksonii</i> strain 07-1	FR696315 (present study)		
<i>Eurychasma dicksonii</i> strain 07-2	FR696316 (present study)		
<i>Eurychasma dicksonii</i> strain 34-4	FR696310 (present study)		
<i>Eurychasma dicksonii</i> strain FI-S63	FR696320 (present study)		
<i>Eurychasma dicksonii</i> strain US-385B	FR696319 (present study)		
<i>Halotictida noduliformans</i> NJM 0631	AB285230 (Muraosa et al. 2009)		
<i>Haliphthoros milfordensis</i>	AB285218 (Muraosa et al. 2009)	AB178868 (Sekimoto et al. 2007)	AB178870 (Sekimoto et al. 2007)
<i>Haliphthoros</i> sp. NJM 0440	AB285225 (Muraosa et al. 2009)		
<i>Haliphthoros</i> sp. NJM 0443	AB285226 (Muraosa et al. 2009)		
<i>Haliphthoros</i> -like NJM 0034	AB178866 (Sekimoto et al. 2007)	AB178865 (Sekimoto et al. 2007)	AB178867 (Sekimoto et al. 2007)
<i>Halodaphnea baliensis</i>	AB285222 (Muraosa et al. 2009)		
<i>Halodaphnea panulirata</i>	AB285224 (Muraosa et al. 2009)		
<i>Halodaphnea parasitica</i>	AB285223 (Muraosa et al. 2009)		
<i>Hyaloperonospora parasitica</i>	AF235957 (Petersen & Rosendahl 2000)	AY742752 (unpublished)	AY286223 (Hudspeth et al. 2003)
<i>Halophytophthora batemanensis</i>	DQ361227 (Göker et al. 2007)	GU994182 (unpublished)	DQ365703 (Göker et al. 2007)
<u><i>Hyphochytrium catenoides</i></u>	EF594059 (Gleason et al. 2008)	AF163294 (Hausner et al. 2000)	AF086701 (Hudspeth et al. 2000)
<i>Lagenidium chthamalophilum</i>	AF235946 (Petersen & Rosendahl 2000)		
<i>Lagenidium giganteum</i>	JQ745265 (unpublished)	M54939 (Förster et al. 1990)	AF086697 (Hudspeth et al. 2000)
<i>Leptolegnia caudata</i>	AF218176 (Leclerc et al. 2000)	AJ238659 (Dick et al. 1999),	AF086693 (Hudspeth et al. 2000)
<i>Peronophythora litchii</i>	AF235949 (Petersen & Rosendahl 2000)	AY742750 (unpublished)	AF086698 (Hudspeth et al. 2000)
<i>Peronospora ficariae</i>	AF119600 (Riethmüller et al. 2000)		
<i>Phytophthora infestans</i>	HQ665217 (Robideau et al. 2011)	AY742761 (unpublished)	JF771456 (unpublished)
<i>Phytophthora sojae</i>	EU079794 (Blair et al. 2008)	AY742749 (unpublished)	DQ365753 (Göker et al. 2007)
<i>Pythiopsis cymosa</i>	DQ393490 (Hulvey et al. 2007)	AJ238657 (Dick et al. 1999)	AF086689 (Hudspeth et al. 2000)

<i>Pythium monospermum</i>	AY035535 (Riethmüller et al. 2002)	AJ238653 (Dick et al. 1999)	DQ365765(Göker et al. 2007)
<i>Saprolegnia parasitica</i>	HQ665197 (Robideau et al. 2011)	HQ384412 (unpublished)	HQ660429 (unpublished)
<i>Sapromyces elongatus</i>	AF235950 (Petersen & Rosendahl 2000)	AB548399 (unpublished)	AF086700 (Hudspeth et al. 2000)
<i>Thraustotheca clavata</i>	HQ665268 (Robideau et al. 2011)		

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