

Supplementary Materials

Beneath the Aegean Sun: Investigating *Dunaliella* Strains' Diversity from Greek SaltWorks

Urania Lortou^{1,†}, Manthos Panou^{1,†}, Georgia Papapanagiotou^{1,2,†}, Georgia Florokapi¹, Christos Giannakopoulos¹, Savvas Kavoukis³, Georgios Iakovou³, Giorgos Zalidis², Konstantinos Triantafyllidis³, Spyros Gkelis^{1*}

¹ School of Biology, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece

² School of Agriculture, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece

³ Department of Chemistry, Aristotle University of Thessaloniki, GR-541 24 Thessaloniki, Greece

*Correspondence: sgkelis@bio.auth.gr

†The authors have equally contributed to this work.

Supplementary Table S1: NCBI accession numbers of the TAU-MAC *Dunaliella* strains for the molecular markers 18S rRNA gene, the 18S-28S rRNA internal transcribed spacer (ITS), and the ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (*rbcl*) gene.

Strain	18S rRNA	ITS	<i>rbcl</i>
<i>Dunaliella parva</i> TAU-MAC 0120	OQ418458	OQ418473	OQ446816
<i>Dunaliella granulata</i> TAU-MAC 0220	OQ418459	OQ418474	OQ446817
<i>Dunaliella minuta</i> TAU-MAC 0320	OQ418460	OQ418475	OQ446818
<i>Dunaliella minuta</i> TAU-MAC 0420	OQ418461	OQ418476	OQ446819
<i>Dunaliella terricola</i> TAU-MAC 0520	OQ418462	OQ418477	OQ446820
<i>Dunaliella asymmetrica</i> TAU-MAC 0620	OQ418463	OQ418478	OQ446821
<i>Dunaliella bioculata</i> TAU-MAC 0720	OQ418464	OQ418479	-*
<i>Dunaliella asymmetrica</i> TAU-MAC 0820	OQ418465	OQ418480	-*
<i>Dunaliella viridis</i> TAU-MAC 0920	OQ418466	OQ418481	OQ446822
<i>Dunaliella viridis</i> TAU-MAC 1020	OQ418467	OQ418482	-*
<i>Dunaliella granulata</i> TAU-MAC 1120	OQ418468	OQ418483	OQ446823
<i>Dunaliella minutissima</i> TAU-MAC 1220	OQ418469	OQ418484	OQ446824
<i>Dunaliella polymorpha</i> TAU-MAC 1320	OQ418470	OQ418485	OQ446825
<i>Dunaliella granulata</i> TAU-MAC 1420	OQ418471	OQ418486	OQ446826
<i>Dunaliella polymorpha</i> TAU-MAC 1520	OQ418472	OQ418487	OQ446827

*: *rbcl* gene fragment was not amplified

Supplementary Table S2: List with the accepted *Dunaliella* species from Algaebase and their representation in GenBank concerning the phylogenetic markers 18S rRNA gene, the 18S-28S rRNA internal transcribed spacer (ITS), and the ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (*rbcl*) gene.

Species	NCBI	18S	<i>rbcl</i>	ITS
<i>Dunaliella acidophila</i>	X	–	X	–
<i>Dunaliella asymmetrica</i> *	–	–	–	–
<i>Dunaliella atacamensis</i>	–	–	–	–
<i>Dunaliella baas-beckingii</i>	–	–	–	–
<i>Dunaliella bardawil</i>	X	X	X	X
<i>Dunaliella bioculata</i>	X	–	X	–
<i>Dunaliella carpatica</i>	–	–	–	–
<i>Dunaliella cordata</i>	–	–	–	–
<i>Dunaliella euchlora</i>	–	–	–	–
<i>Dunaliella gracilis</i>	–	–	–	–
<i>Dunaliella granulata</i> *	–	–	–	–
<i>Dunaliella jacobae</i>	–	–	–	–
<i>Dunaliella lateralis</i> [†]	X	–	–	–
<i>Dunaliella maritima</i> [†]	X	–	–	–
<i>Dunaliella media</i>	–	–	–	–
<i>Dunaliella minuta</i> *	X	X	X	–
<i>Dunaliella minutissima</i> *	–	–	–	–
<i>Dunaliella obliqua</i>	–	–	–	–
<i>Dunaliella parva</i> *	X	X	X	X
<i>Dunaliella paupera</i>	–	–	–	–
<i>Dunaliella peircei</i>	X	–	X	–
<i>Dunaliella polymorpha</i> *	X	–	X	–
<i>Dunaliella primolecta</i>	X	–	X	–
<i>Dunaliella pseudosalina</i>	X	X	X	–

<i>Dunaliella quartolecta</i>	X	X	X	–
<i>Dunaliella ruineniana</i>	–	–	–	–
<i>Dunaliella salina</i> subsp. <i>sibirica</i>	–	–	–	–
<i>Dunaliella salina</i>	X	X	X	X
<i>Dunaliella terricola</i> *	–	–	–	–
<i>Dunaliella tertiolecta</i>	X	–	X	–
<i>Dunaliella turcomanica</i>	–	–	–	–
<i>Dunaliella viridis</i> var. <i>palmelloides</i>	–	–	–	–
<i>Dunaliella viridis</i> f. <i>euchlora</i>	–	–	–	–
<i>Dunaliella viridis</i> *	X	–	X	–

* : Species where TAU-MAC strains have been classified into, in the present study

† : Species with deposited small sequences in GenBank / non phylogenetic informative