

**Table S2:** Distribution of the investigated coccoid and sarcinoid genera found in the GBIF database (<https://www.gbif.org>)

Genus	# of records	Sources
<i>Desmochloris</i>	484	<a href="https://www.gbif.org/species/2652025">https://www.gbif.org/species/2652025</a>
<i>Chlorocystis</i> (syn. <i>Halochlorococcum</i> )	52	<a href="https://www.gbif.org/species/2646192">https://www.gbif.org/species/2646192</a>
	311	<a href="https://www.gbif.org/species/9798860">https://www.gbif.org/species/9798860</a>
<i>Solotvynia</i>	2	this study
<i>Sykidion</i> (syn. <i>Pseudoneochloris</i> )	25	<a href="https://www.gbif.org/species/2642314">https://www.gbif.org/species/2642314</a>
	77	<a href="https://www.gbif.org/species/2646252">https://www.gbif.org/species/2646252</a>
<i>Ignatius</i>	75	<a href="https://www.gbif.org/species/2640526">https://www.gbif.org/species/2640526</a>
<i>Symbiochlorum</i>	2	<a href="https://www.gbif.org/species/10620661">https://www.gbif.org/species/10620661</a> , this study
<b>Total</b>	<b>1028</b>	