

Supplementary Materials

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Supplementary Table S1. List of the 28 formally described species of the genus *Scrippsiella*

No.	Species
1	<i>Scrippsiella acuminata</i> (= <i>S. trochoidea</i>)
2	<i>Scrippsiella bicarinata</i>
3	<i>Scrippsiella chattonii</i>
4	<i>Scrippsiella crystallina</i>
5	<i>Scrippsiella donghaiensis</i> (= <i>S. donghaiensis</i>)
6	<i>Scrippsiella enormis</i>
7	<i>Scrippsiella erinacea</i> (= <i>S. erinaceus</i>)
8	<i>Scrippsiella iizukai</i>
9	<i>Scrippsiella infula</i>
10	<i>Scrippsiella irregularis</i>
11	<i>Scrippsiella kirschiae</i>
12	<i>Scrippsiella lachrymosa</i>
13	<i>Scrippsiella masanensis</i>
14	<i>Scrippsiella minima</i> (= <i>S. minuta</i> ?)
15	<i>Scrippsiella operosa</i>
16	<i>Scrippsiella patagonica</i>
17	<i>Scrippsiella plana</i>
18	<i>Scrippsiella precaria</i>
19	<i>Scrippsiella ramonii</i>
20	<i>Scrippsiella regalis</i>
21	<i>Scrippsiella rotunda</i>
22	<i>Scrippsiella saladensis</i>
23	<i>Scrippsiella spinifera</i>
24	<i>Scrippsiella sweeneyae</i> <type species>
25	<i>Scrippsiella tinctoria</i>
26	<i>Scrippsiella trifida</i>
27	<i>Scrippsiella triquetracapitata</i>
28	<i>Scrippsiella veillelae</i>

Among the 30 species registered in AlgaeBase, two (*S. caponii* and *S. minuta*) were excluded from this table according to Gómez (2005) and Hoppenrath et al. (2014). *Scrippsiella caponii* was excluded from this table because it is currently considered a synonym for *Bysmatrum gregarium* (Hoppenrath et al. 2014). In AlgaeBase, *S. minuta* is described as a taxonomically accepted species; however, it remains unclear whether *S. minuta* differs from *S. minima*.

REFERENCES

- Gómez, F. 2005. A list of free-living dinoflagellate species in the world's oceans. Acta Bot. Croat. 64:129–212.
- Hoppenrath, M., Murray, S. A., Chomérat, N. & Horiguchi, T. 2014. *Marine benthic dinoflagellates: unveiling their worldwide biodiversity*. Schweizerbart Science Publishers, Stuttgart, 276 pp.