

Revisiting the systematics of the *Grateloupia*-complex (Halymeniales, Rhodophyta) based on cystocarp development and molecular phylogeny



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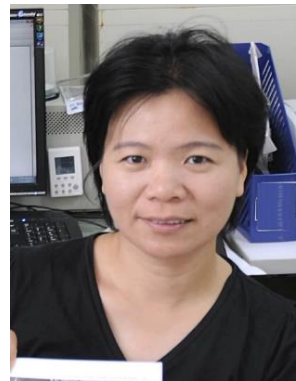
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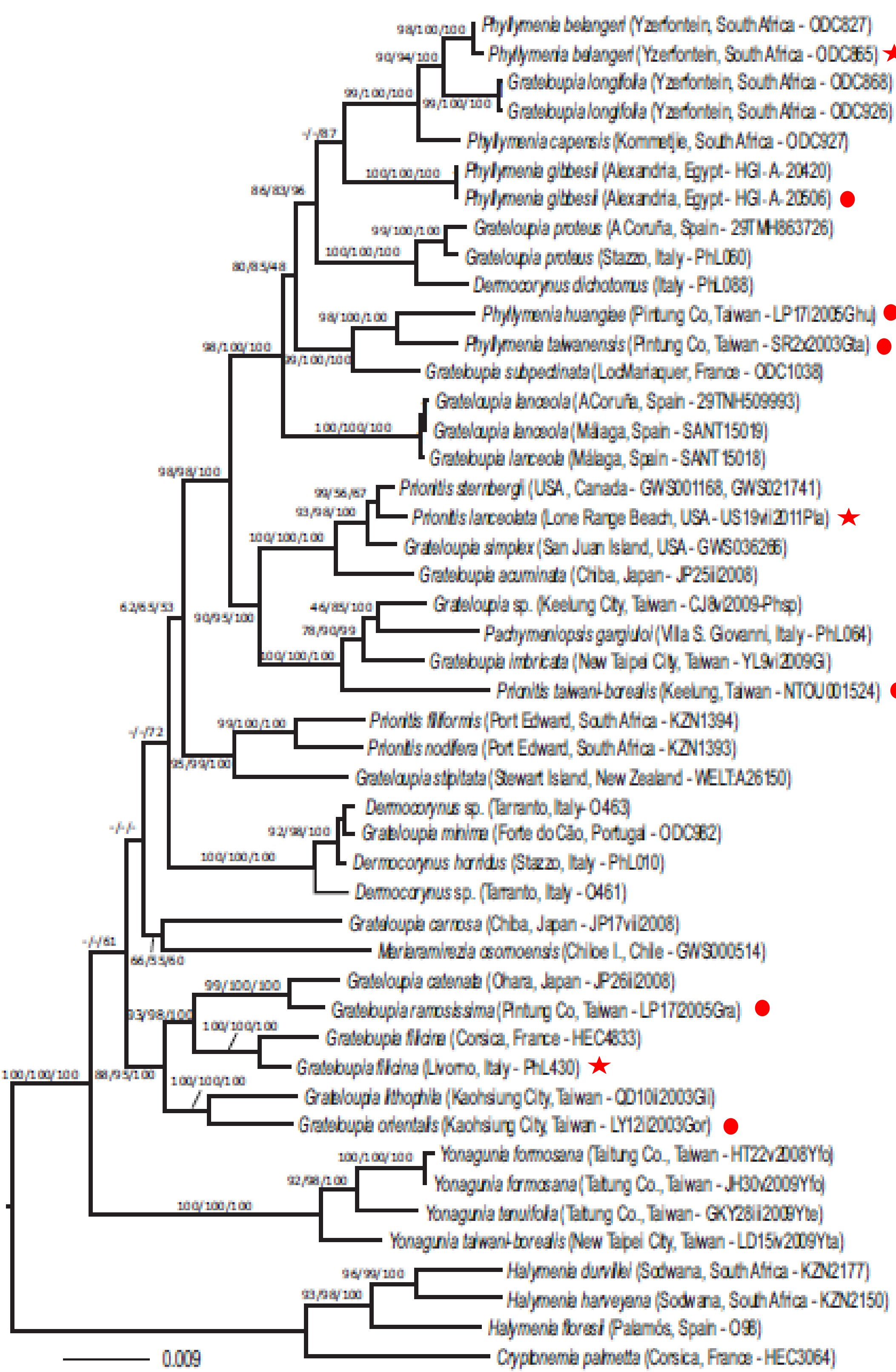
John Huisman
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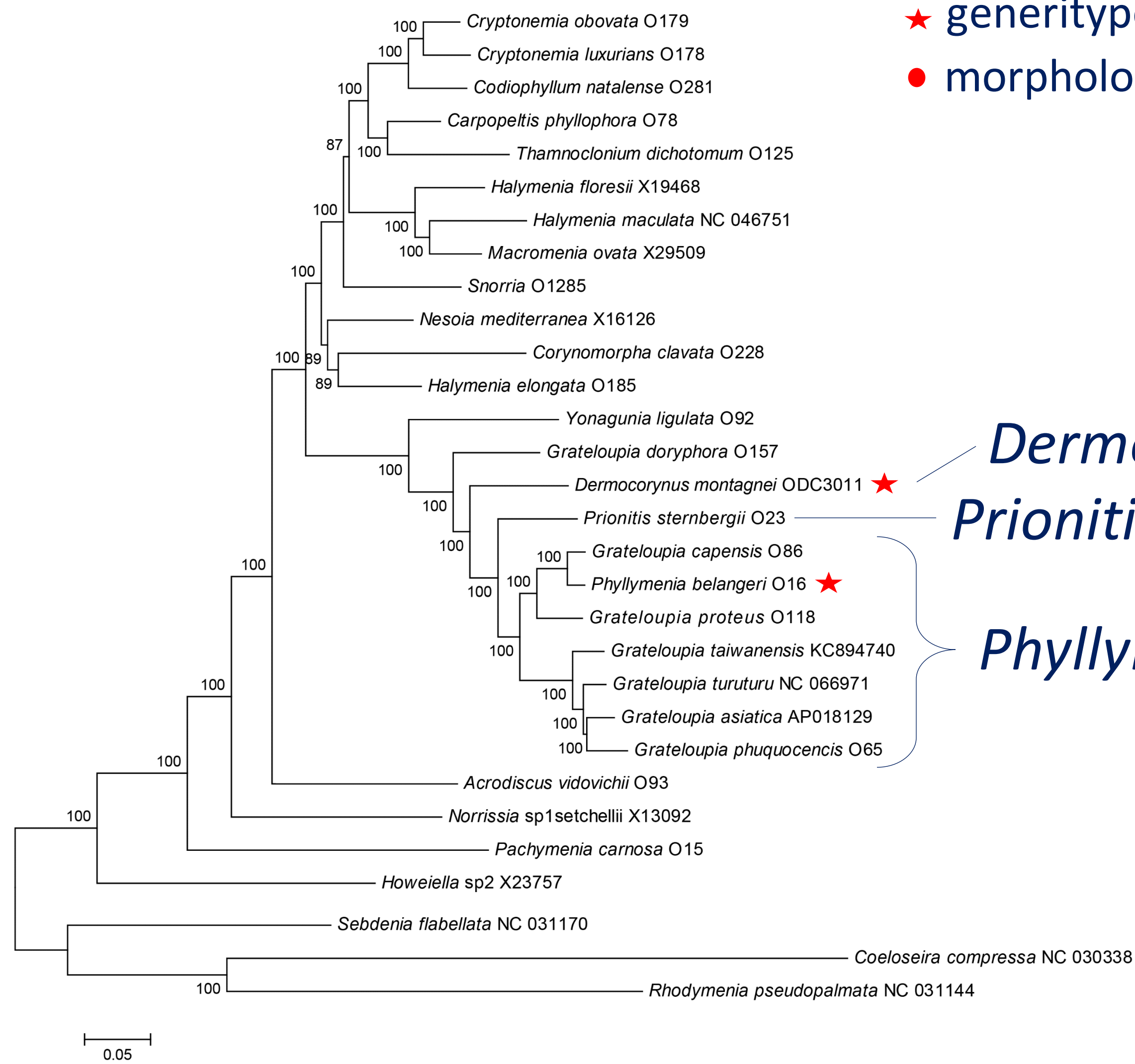
Frederik Leiaert
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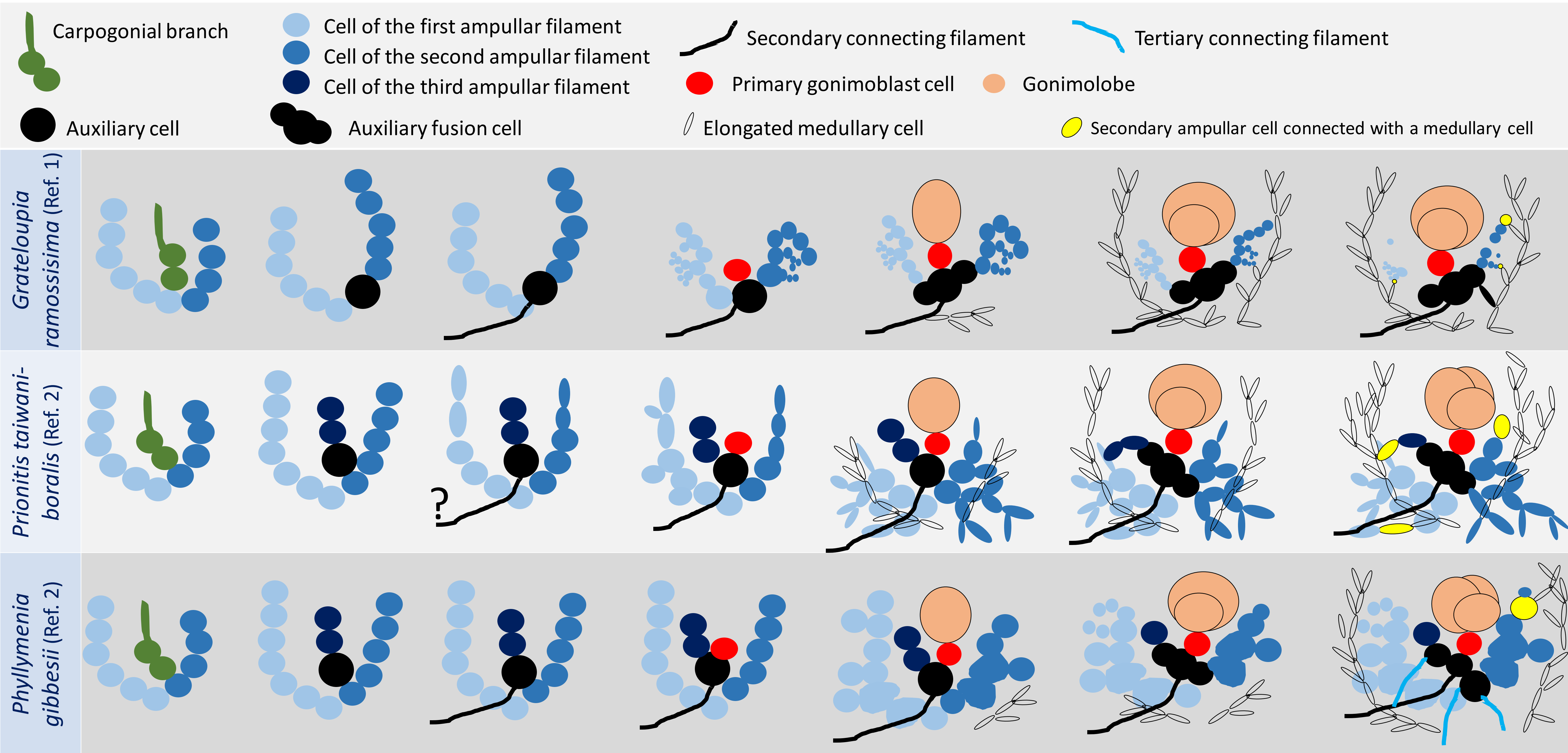


rbcL + LSU phylogenetic tree in the *Grateloupia*-complex.
Rodríguez-Prieto *et al.* (2022)



Maximum likelihood phylogeny based on 169 chloroplast genes

Molecular data based on *rbcl* + LSU and chloroplasts genes, together with reproductive morphology, shed light on the genus-level classification and support *Phyllymenia* and *Prionitis* distinct from *Grateloupia* s.s.



1- Lin, S.-M., Liang, H.-Y. & Hommersand, M.H. (2008). Two types of auxiliary cell ampullae in *Grateloupia* (Halymeniaceae) including *G. taiwanensis* sp. nov. and *G. orientalis* sp. nov. from Taiwan based on *rbcL* gene sequence analysis and cystocarp development. *Journal of Phycology* 44(1): 196-214
2- Rodríguez-Prieto, C., De Clerck, O., Guiry, M.D. & Lin S.-M. (2022). Revisiting the systematics of the genera *Grateloupia*, *Phyllymenia*, and *Prionitis* (Halymeniaceae, Rhodophyta) with a decription of a new species - *Prionitis taiwanensis*. *Journal of Phycology* 58(2): [1-17] 234-250.