



**Figure S1.** Maximum likelihood tree of *Tetradesmus* and selected related genera based on the analysis of *tufA* and *rbcL*, and ITS2 data (lnL = -4978.447). The number associated with the nodes indicate support values for ML analysis. Support values below 50 were omitted. Aquatic strains are labeled in blue, strains isolated from desert soil crusts are labeled in orange boldface font.