



Figure S2. Diamond BLASTx Results against selected proteomes of streptophytes (S) and chlorophytes (C). The protein sequences of the following organisms were retrieved from Phytozome v11.0: *Arabidopsis thaliana* (S), *Chlamydomonas reinhardtii* (C), *Coccomyxa subellipsoidea* (C), *Dunaliella salina* (C), *Marchantia polymorpha* (S), *Micromonas pusilla* (C), *Oryza sativa* (S), *Ostreococcus lucimarinus* (C), *Physcomitrella patens* (S), *Volvox carteri* (C). Proteinsequences for *Chlorella* sp. NC64A (C) and *Klebsormidium flaccidum* (S) were downloaded from the JGI Genome Portal and the *Klebsormidium flaccidum* genome project, respectively (marked with asterisk). The hit count of *Zygnema* contigs against different e-values is plotted.