

- Multicellular Al
- Siphonous
- Siphonocladous

**Supplemental Figure S7:** Green Algal Phylogeny showing the trait categories (Unicellular, Multicellular, Siphonous and Siphonocladous) for body architecture based model[M1]. The molecular evolutionary traits: omega(dN/dS), non-synonymous(dN) and synonymous(dS) were obtained for each of the four categories by allowing four different selection pattern corresponding to the trait categories.