

b)

a)

****

d)

c)



f)

e)



g)

**S2 Fig.**  Heterogeneity and variability for an internal group of sequences that include endosymbiont’s from sand flies and mosquitoes. a) Group *wCnig* of *Wolbachia* (sequences of *wsp* gene)only with membersfrom *Cx. nigripalpus,* b) Group *wLeva* of *Wolbachia* (sequences of *wsp* gene) only with members of *Ev. dubitans* and *Mi. micropyga,* c) *Microsporidia* from *Culex*, *Lutzomyia pia* and *Microsporidian MB* and other microsporidia of Clade IV (sequences of the SSU rRNA), d) Microsporidia only from *Culex*, *Lutzomyia pia* and *Microsporidian MB*, e) *Cardinium* endosymbiont’s (sequences of 16S rDNA) only with members of group C that include Sand flies and *Culicoides* host´s, f) *Cardinium* endosymbiont’s only with members of subgroup 1 from *Mi. cayennensis*, g) *Cardinium* endosymbiont’s only with members of subgroup 2 from *Mi. cayennensis* and *Pi. evansi*.