



Fig. S5. Comparative analysis of nodulation phenotypes of mutants lacking different *znu* genes. (A) Representative photos showing infected nodules (red arrows) and bumps (blue arrows) observed on roots of *G. max* and *G. soja* inoculated with corresponding strains. (B-D) Number of infected nodules per plant of *G. max* (B), *G. soja* (C) and *C. cajan* (D). Means \pm SD are based on 20-30 scored plants from three independent experiments. Different letters indicate significant difference (Duncan test, $\alpha = 0.05$). (E-G) Number of infected nodules per plant of *G. max* (E), *G. soja* (F) and *C. cajan* (G) inoculated with corresponding strains under conditions with or without 700 μ M ZnSO₄ in vermiculite moistened with low-N nutrient solution. Means \pm SD are based on 20-30 scored plants from three independent experiments (*t* test; **, $P < 0.01$; ***, $P < 0.001$).