



Fig. S8. Nodulation defects of mutants lacking *znu* cannot be recovered by replete cobalt. Nodule number per plant of *Glycine max* (A) and *Glycine soja* (B) were recorded under conditions with different concentrations of cobalt being supplied. Means \pm SD are based on more than 20-30 scored plants. Significant effects of cobalt addition are indicated (*t* test; ns, $P > 0.05$; ***, $P < 0.001$). There were no nodules formed on *Cajanus cajan* plants inoculated with either WT or the mutant when cobalt was added.